

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2013-0006

SEPTEMBER 2020

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309



October 31, 2020

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the September 2020 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2014-0009 as amended by Order Nos. R9-2014-0094, R9-2017-0024, R9-2019-0012, NPDES Permit No. CA0108928).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter S. Vroom, Ph.D.
Deputy Director, Public Utilities Department

PV/rk

cc: U.S. Environmental Protection Agency, Region 9

INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–S12).

Seawater samples were collected from the surf zone at each station on a weekly basis. These samples were subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of total coliform, fecal coliform, and *Enterococcus* bacteria. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions were recorded at the time of sample collection. Wind speed and direction were measured using a hand-held anemometer with a compass.

Kelp Bed Stations

Seven kelp bed and other nearshore stations (I19, I24, I25, I26, I32, I39, I40; collectively referred to as “kelp” stations herein) were sampled four times during the month according to NPDES permit specifications. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9- m depth contour, and one (I39) is located along the 18-m depth contour. Three of these stations, I25, I26, and I39, were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these three stations are only occasionally located within an area where kelp is actually found.

The seven kelp stations are sampled on a weekly basis during the month. Routine monitoring at each kelp site consists of collecting seawater samples at three discrete depths for bacteriological analyses (total coliforms, fecal coliforms, and *Enterococcus* bacteria) and generating water column profiles of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, and transmissivity. Visual observations of weather and water conditions are also recorded at all stations.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the monthly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria, suspended solids, and oil and grease concentrations were collected at 28 of the stations.

At these offshore stations, water samples for bacteriological analyses were collected using a rosette sampler with Niskin bottles. Measurements of the physical/chemical parameters listed above were taken using a Sea-Bird CTD. Additionally, CTD profile data for depths closest to those at which bacteriological samples were collected were extracted from the CTD profiles and are presented with the bacteriological data.

Bacteriological Reporting and Quality Assurance

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)¹. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the geometric mean and single sample maximum water-contact standards specified in the California Ocean Plan (Ocean Plan). The seven standards are defined as follows:

30-day Geometric Mean: The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

¹ Bordner, R., J. Winter, and P. Scarpino (eds.). (1978). Microbiological Methods for Monitoring the Environment: Water and Wastes, EPA Research and Development, EPA-600/8-78-017. 337 p.

Single Sample Maximums:

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

Compliance with the seven Ocean Plan standards are summarized below for the stations located in USA waters. In contrast, no such compliance summaries are presented for the three shore stations located in Mexican waters south of the International Border (i.e., S0, S2, and S3) since this region is not subject to the Ocean Plan standards.

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2020 Quality Assurance Report, which will be completed in March 2021.

SUMMARY OF RESULTS

➤ **Shoreline Water Quality Sampling**

- Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
 - Due to unforeseen circumstances, shore samples collected on September 8, from S0, S2 and S3, exceeded their holding times and, thus, were not analyzed or reported on here.
- During September, six of the eight shore stations located north of the border were out of compliance with California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The single sample maximum (SSM) standard for total coliform was exceeded at station S5.

² Gilbert, R.O. (1987). Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York.

- The SSM standard for fecal coliform was exceeded at stations S4, S5, S6, S10, S11 and S12.
 - The SSM standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11 and S12.
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, S6, S10, S11 and S12.
 - Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected from stations S0, S2 and S3 on one or more days during September.
- Notable observations included a sewage-like odor at station S5, S9 and S10 on one or more days during September.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

➤ **Kelp Bed Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on September 8, 14, 21, and 28.
- During September, six of the seven kelp bed stations were out of compliance with various Ocean Plan water contact standards, as follows:
 - The SSM standard for total coliform was exceeded at stations I19, I25, I26 and I40.
 - The SSM standard for fecal coliform was exceeded at stations I19, I24, I25, I26, I39 and I40.
 - The SSM standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I39 and I40.
 - The SSM standard that states total coliform density shall not exceed 1,000 per 100 mL when the fecal coliform/total coliform ratio exceeds 0.1 was exceeded at stations I19, I24, I25, I26 and I40.
- Water column temperatures ranged from 13.64 to 20.35°C. The difference between surface and bottom waters ranged from 0.03 to 5.34°C.
- Concentrations of chlorophyll *a* ranged from 0.26 to 8.68 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of these kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during September at the offshore stations. The next quarterly sampling is scheduled for November 2020.

This page intentionally left blank



TABLES AND FIGURES

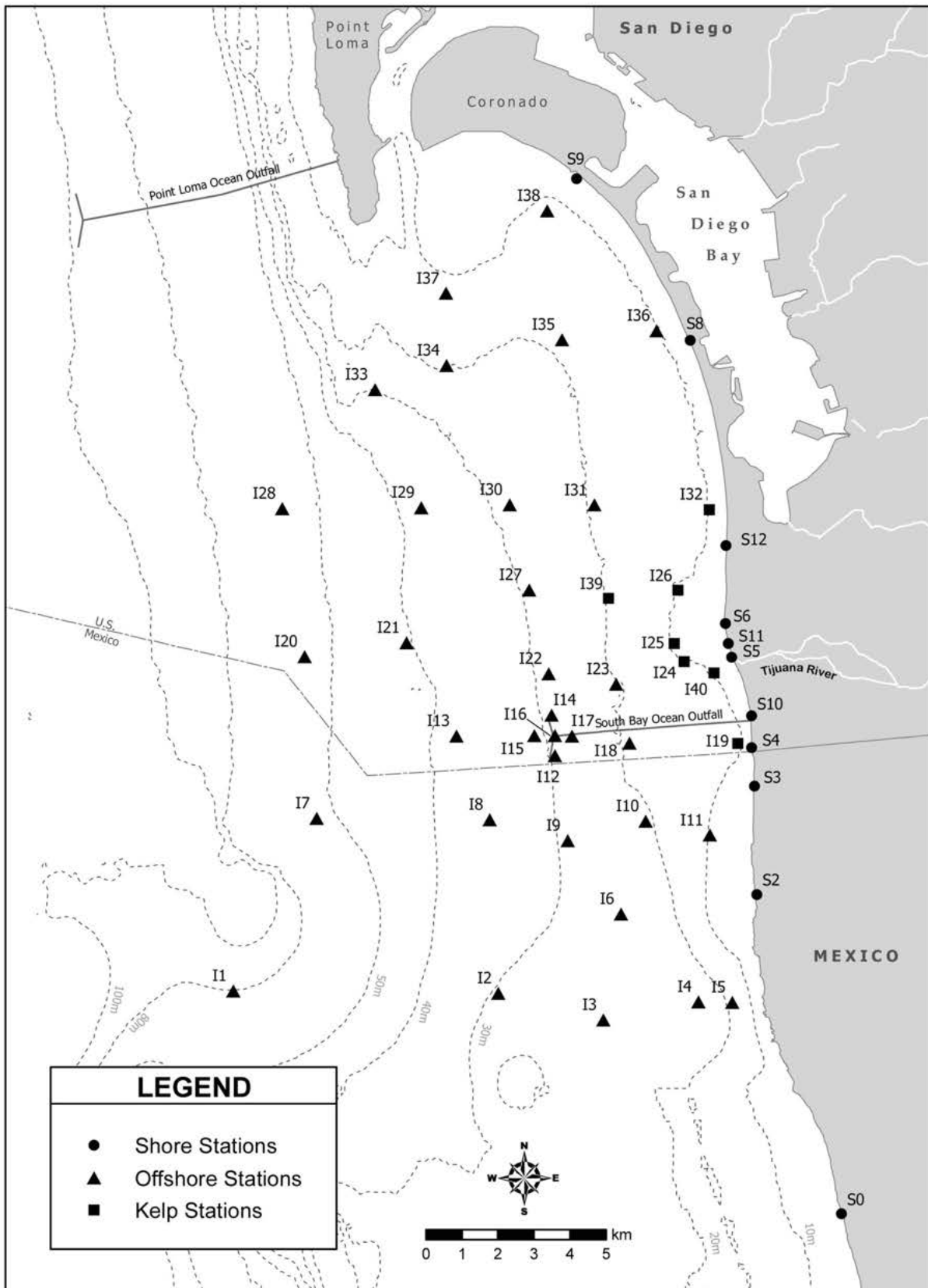


Figure 1.1 Station Map

This page intentionally left blank

Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|-----|------|-----|-----|------|-----|-----|-----|
| 01 Sep 2020 | 56 | 324 | 157 | 19 | 50 | 71 | 147 | 289 |
| 02 Sep 2020 | 56 | 324 | 157 | 19 | 50 | 71 | 147 | 289 |
| 03 Sep 2020 | 22 | 149 | 62 | 19* | 63* | 39 | 58 | 239 |
| 04 Sep 2020 | 22 | 149 | 62 | 19* | 63* | 39 | 58 | 239 |
| 05 Sep 2020 | 13* | 127* | 83* | 19* | 63* | 16* | 75* | 239 |
| 06 Sep 2020 | 13* | 127* | 83* | 19* | 63* | 16* | 75* | 239 |
| 07 Sep 2020 | 13* | 127* | 83* | 19* | 63* | 16* | 75* | 239 |
| 08 Sep 2020 | 49 | 310 | 202 | 22 | 58 | 51 | 181 | 351 |
| 09 Sep 2020 | 49 | 310 | 202 | 22 | 58 | 51 | 181 | 351 |
| 10 Sep 2020 | 107 | 258 | 137 | 40* | 134* | 100 | 140 | 351 |
| 11 Sep 2020 | 107 | 258 | 137 | 40* | 134* | 100 | 140 | 351 |
| 12 Sep 2020 | 107 | 258 | 137 | 40* | 134* | 100 | 140 | 351 |
| 13 Sep 2020 | 107 | 258 | 137 | 40* | 134* | 100 | 140 | 351 |
| 14 Sep 2020 | 107 | 258 | 137 | 40* | 134* | 100 | 140 | 351 |
| 15 Sep 2020 | 81 | 168 | 99 | 35 | 91 | 76 | 101 | 233 |
| 16 Sep 2020 | 81 | 168 | 99 | 35 | 91 | 76 | 101 | 233 |
| 17 Sep 2020 | 93 | 157 | 51 | 24* | 75* | 100 | 78 | 122 |
| 18 Sep 2020 | 93 | 157 | 51 | 24* | 75* | 100 | 78 | 122 |
| 19 Sep 2020 | 93 | 157 | 51 | 24* | 75* | 100 | 78 | 83 |
| 20 Sep 2020 | 93 | 157 | 51 | 24* | 75* | 100 | 78 | 83 |
| 21 Sep 2020 | 93 | 157 | 51 | 24* | 75* | 100 | 78 | 83 |
| 22 Sep 2020 | 72 | 111 | 44 | 20 | 66 | 52 | 43 | 65 |
| 23 Sep 2020 | 72 | 111 | 44 | 20 | 66 | 52 | 43 | 65 |
| 24 Sep 2020 | 93 | 81 | 81 | 20* | 50* | 55 | 50 | 83 |
| 25 Sep 2020 | 93 | 81 | 81 | 20* | 50* | 55 | 50 | 83 |
| 26 Sep 2020 | 93 | 81 | 81 | 20* | 50* | 55 | 50 | 83 |
| 27 Sep 2020 | 93 | 81 | 81 | 20* | 50* | 55 | 50 | 83 |
| 28 Sep 2020 | 93 | 81 | 81 | 20* | 50* | 55 | 50 | 83 |
| 29 Sep 2020 | 72 | 44 | 64 | 20 | 42 | 46 | 43 | 65 |
| 30 Sep 2020 | 72 | 44 | 64 | 20 | 42 | 46 | 43 | 65 |

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|-----|-----|----|----|-----|-----|-----|
| 01 Sep 2020 | 21 | 37 | 37 | 3 | 3 | 18 | 16 | 40 |
| 02 Sep 2020 | 21 | 37 | 37 | 3 | 3 | 18 | 16 | 40 |
| 03 Sep 2020 | 9 | 15 | 13 | 4* | 2* | 10 | 5 | 31 |
| 04 Sep 2020 | 9 | 15 | 13 | 4* | 2* | 10 | 5 | 31 |
| 05 Sep 2020 | 9* | 11* | 20* | 4* | 2* | 5* | 6* | 31 |
| 06 Sep 2020 | 9* | 11* | 20* | 4* | 2* | 5* | 6* | 31 |
| 07 Sep 2020 | 9* | 11* | 20* | 4* | 2* | 5* | 6* | 31 |
| 08 Sep 2020 | 26 | 38 | 53 | 3 | 4 | 17 | 21 | 48 |
| 09 Sep 2020 | 26 | 38 | 53 | 3 | 4 | 17 | 21 | 48 |
| 10 Sep 2020 | 39 | 43 | 34 | 4* | 4* | 27 | 25 | 54 |
| 11 Sep 2020 | 39 | 43 | 34 | 4* | 4* | 27 | 25 | 54 |
| 12 Sep 2020 | 39 | 43 | 34 | 4* | 4* | 27 | 25 | 54 |
| 13 Sep 2020 | 39 | 43 | 34 | 4* | 4* | 27 | 25 | 54 |
| 14 Sep 2020 | 39 | 43 | 34 | 4* | 4* | 27 | 25 | 54 |
| 15 Sep 2020 | 29 | 31 | 31 | 3 | 4 | 18 | 19 | 47 |
| 16 Sep 2020 | 29 | 31 | 31 | 3 | 4 | 18 | 19 | 47 |
| 17 Sep 2020 | 31 | 30 | 21 | 2* | 4* | 22 | 14 | 27 |
| 18 Sep 2020 | 31 | 30 | 21 | 2* | 4* | 22 | 14 | 27 |
| 19 Sep 2020 | 31 | 30 | 21 | 2* | 4* | 22 | 14 | 17 |
| 20 Sep 2020 | 31 | 30 | 21 | 2* | 4* | 22 | 14 | 17 |
| 21 Sep 2020 | 31 | 30 | 21 | 2* | 4* | 22 | 14 | 17 |
| 22 Sep 2020 | 29 | 19 | 14 | 3 | 4 | 15 | 10 | 17 |
| 23 Sep 2020 | 29 | 19 | 14 | 3 | 4 | 15 | 10 | 17 |
| 24 Sep 2020 | 37 | 16 | 21 | 3* | 4* | 16 | 14 | 27 |
| 25 Sep 2020 | 37 | 16 | 21 | 3* | 4* | 16 | 14 | 27 |
| 26 Sep 2020 | 37 | 16 | 21 | 3* | 4* | 16 | 14 | 27 |
| 27 Sep 2020 | 37 | 16 | 21 | 3* | 4* | 16 | 14 | 27 |
| 28 Sep 2020 | 37 | 16 | 21 | 3* | 4* | 16 | 14 | 27 |
| 29 Sep 2020 | 23 | 11 | 14 | 3 | 4 | 11 | 10 | 26 |
| 30 Sep 2020 | 23 | 11 | 14 | 3 | 4 | 11 | 10 | 26 |

* Geometric mean calculated using n<5

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|-----|-----|----|----|-----|-----|-----|
| 01 Sep 2020 | 15 | 24 | 19 | 2 | 3 | 8 | 14 | 10 |
| 02 Sep 2020 | 15 | 24 | 19 | 2 | 3 | 8 | 14 | 10 |
| 03 Sep 2020 | 7 | 11 | 8 | 2* | 2* | 4 | 6 | 8* |
| 04 Sep 2020 | 7 | 11 | 8 | 2* | 2* | 4 | 6 | 8* |
| 05 Sep 2020 | 7* | 15* | 10* | 2* | 2* | 3* | 8* | 8* |
| 06 Sep 2020 | 7* | 15* | 10* | 2* | 2* | 3* | 8* | 8* |
| 07 Sep 2020 | 7* | 15* | 10* | 2* | 2* | 3* | 8* | 8* |
| 08 Sep 2020 | 18 | 32 | 26 | 3 | 3 | 9 | 19 | 15 |
| 09 Sep 2020 | 18 | 32 | 26 | 3 | 3 | 9 | 19 | 15 |
| 10 Sep 2020 | 27 | 32 | 30 | 3* | 3* | 9 | 23 | 15 |
| 11 Sep 2020 | 27 | 32 | 30 | 3* | 3* | 9 | 23 | 15 |
| 12 Sep 2020 | 27 | 32 | 30 | 3* | 3* | 9 | 23 | 15 |
| 13 Sep 2020 | 27 | 32 | 30 | 3* | 3* | 9 | 23 | 15 |
| 14 Sep 2020 | 27 | 32 | 30 | 3* | 3* | 9 | 23 | 15 |
| 15 Sep 2020 | 33 | 23 | 30 | 3 | 3 | 7 | 30 | 11 |
| 16 Sep 2020 | 33 | 23 | 30 | 3 | 3 | 7 | 30 | 11 |
| 17 Sep 2020 | 34 | 25 | 26 | 4* | 3* | 7 | 30 | 7 |
| 18 Sep 2020 | 34 | 25 | 26 | 4* | 3* | 7 | 30 | 7 |
| 19 Sep 2020 | 34 | 25 | 26 | 4* | 3* | 7 | 30 | 7 |
| 20 Sep 2020 | 34 | 25 | 26 | 4* | 3* | 7 | 30 | 7 |
| 21 Sep 2020 | 34 | 25 | 26 | 4* | 3* | 7 | 30 | 7 |
| 22 Sep 2020 | 21 | 16 | 17 | 4 | 4 | 6 | 19 | 6 |
| 23 Sep 2020 | 21 | 16 | 17 | 4 | 4 | 6 | 19 | 6 |
| 24 Sep 2020 | 27 | 17 | 26 | 4* | 4* | 7 | 30 | 6 |
| 25 Sep 2020 | 27 | 17 | 26 | 4* | 4* | 7 | 30 | 6 |
| 26 Sep 2020 | 27 | 17 | 26 | 4* | 4* | 7 | 30 | 6 |
| 27 Sep 2020 | 27 | 17 | 26 | 4* | 4* | 7 | 30 | 6 |
| 28 Sep 2020 | 27 | 17 | 26 | 4* | 4* | 7 | 30 | 6 |
| 29 Sep 2020 | 17 | 12 | 19 | 4 | 4 | 6 | 24 | 5 |
| 30 Sep 2020 | 17 | 12 | 19 | 4 | 4 | 6 | 24 | 5 |

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|----|----|----|----|-----|-----|-----|
| 01 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 08 Sep 2020 | IC | E | IC | IC | IC | IC | IC | IC |
| 10 Sep 2020 | IC | IC | IC | ns | ns | IC | IC | IC |
| 15 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|----|----|----|----|-----|-----|-----|
| 01 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 08 Sep 2020 | E | E | E | IC | IC | E | E | E |
| 10 Sep 2020 | IC | IC | IC | ns | ns | IC | IC | IC |
| 15 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|----|----|----|----|-----|-----|-----|
| 01 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 08 Sep 2020 | E | E | E | IC | IC | E | E | E |
| 10 Sep 2020 | IC | IC | IC | ns | ns | IC | IC | IC |
| 15 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

| Date | S4 | S5 | S6 | S8 | S9 | S10 | S11 | S12 |
|-------------|----|----|----|----|----|-----|-----|-----|
| 01 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 08 Sep 2020 | E | E | E | IC | IC | E | E | E |
| 10 Sep 2020 | IC | IC | IC | ns | ns | IC | IC | IC |
| 15 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 22 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |
| 29 Sep 2020 | IC | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

| Station | Date | Time | Total | Fecal | Entero | F:T |
|---------|-------------|------|-------|-------|--------|------|
| S0 | 01 Sep 2020 | 1020 | 9000 | 620 | 320e | 0.07 |
| S0 | 08 Sep 2020 | 1045 | na | na | na | na |
| S0 | 15 Sep 2020 | 1000 | 9400 | 560 | 560 | 0.06 |
| S0 | 22 Sep 2020 | 950 | 9000 | 900 | 820 | 0.10 |
| S0 | 29 Sep 2020 | 1125 | 1400 | 540 | 300e | 0.39 |
| S2 | 01 Sep 2020 | 945 | 6e | <2 | 2e | 0.33 |
| S2 | 08 Sep 2020 | 1005 | na | na | na | na |
| S2 | 15 Sep 2020 | 1058 | 4e | 2e | 4e | 0.50 |
| S2 | 22 Sep 2020 | 1150 | <2 | <2 | 40 | 1.00 |
| S2 | 29 Sep 2020 | 1220 | 1300 | 540 | 240e | 0.42 |
| S3 | 01 Sep 2020 | 910 | <20 | 2e | 2e | 0.10 |
| S3 | 08 Sep 2020 | 945 | na | na | na | na |
| S3 | 15 Sep 2020 | 1132 | 2e | 2e | <2 | 1.00 |
| S3 | 22 Sep 2020 | 1115 | <20 | <2 | 4e | 0.10 |
| S3 | 29 Sep 2020 | 1245 | 1000e | 640 | 100e | 0.64 |
| S4 | 01 Sep 2020 | 757 | <20 | <20 | 6e | 1.00 |
| S4 | 08 Sep 2020 | 752 | 8800 | 1800e | 880 | 0.20 |
| S4 | 10 Sep 2020 | 1004 | 100e | 16e | 16e | 0.16 |
| S4 | 15 Sep 2020 | 829 | <20 | 6e | 84 | 0.30 |
| S4 | 22 Sep 2020 | 805 | <20 | <20 | <2 | 1.00 |
| S4 | 29 Sep 2020 | 947 | <20 | <2 | 2e | 0.10 |
| S5 | 01 Sep 2020 | 832 | <20 | <2 | 58 | 0.10 |
| S5 | 08 Sep 2020 | 846 | 11000 | 5000 | 800e | 0.45 |
| S5 | 10 Sep 2020 | 817 | 40e | 8e | 4e | 0.20 |
| S5 | 15 Sep 2020 | 731 | <20 | 6e | 4e | 0.30 |
| S5 | 22 Sep 2020 | 1039 | <20 | <2 | <2 | 0.10 |
| S5 | 29 Sep 2020 | 853 | 2e | <2 | <2 | 1.00 |
| S6 | 01 Sep 2020 | 848 | 60e | 22e | 46 | 0.37 |
| S6 | 08 Sep 2020 | 902 | 7200 | 2400e | 980 | 0.33 |
| S6 | 10 Sep 2020 | 841 | <20 | 2e | 4e | 0.10 |
| S6 | 15 Sep 2020 | 745 | 20e | <20 | 30e | 1.00 |
| S6 | 22 Sep 2020 | 1058 | <20 | <2 | <2 | 0.10 |
| S6 | 29 Sep 2020 | 909 | <20 | 2e | 4e | 0.10 |
| S8 | 01 Sep 2020 | 942 | <20 | <2 | 2e | 0.10 |
| S8 | 08 Sep 2020 | 957 | 40e | 2e | 10e | 0.05 |
| S8 | 15 Sep 2020 | 925 | <20 | 2e | 4e | 0.10 |
| S8 | 22 Sep 2020 | 1143 | 10e | 8e | 4e | 0.80 |
| S8 | 29 Sep 2020 | 740 | <20 | <2 | <2 | 0.10 |
| S9 | 01 Sep 2020 | 1001 | <200 | 4e | <2 | 0.02 |
| S9 | 08 Sep 2020 | 1033 | 40e | <20 | 8e | 0.50 |
| S9 | 15 Sep 2020 | 945 | <20 | <2 | <2 | 0.10 |
| S9 | 22 Sep 2020 | 1214 | 40e | <2 | 12e | 0.05 |
| S9 | 29 Sep 2020 | 723 | 20e | <2 | <2 | 0.10 |
| S10 | 01 Sep 2020 | 751 | <20 | 6e | <2 | 0.30 |
| S10 | 08 Sep 2020 | 744 | 5200 | 2000e | 1100 | 0.38 |
| S10 | 10 Sep 2020 | 1014 | 120e | 20e | 2e | 0.17 |

| Station | Date | Time | Total | Fecal | Enteroc | F:T |
|---------|-------------|------|-------|-------|---------|------|
| S10 | 15 Sep 2020 | 823 | <20 | <2 | 2e | 0.10 |
| S10 | 22 Sep 2020 | 818 | <2 | <2 | 2e | 1.00 |
| S10 | 29 Sep 2020 | 940 | <20 | <2 | <2 | 0.10 |
| S11 | 01 Sep 2020 | 843 | <20 | 2e | 36e | 0.10 |
| S11 | 08 Sep 2020 | 855 | 6200 | 2600e | 600e | 0.42 |
| S11 | 10 Sep 2020 | 832 | 60e | 14e | 6e | 0.23 |
| S11 | 15 Sep 2020 | 739 | <20 | 4e | 100 | 0.20 |
| S11 | 22 Sep 2020 | 1050 | <2 | <2 | 2e | 1.00 |
| S11 | 29 Sep 2020 | 902 | <20 | <2 | 8e | 0.10 |
| S12 | 01 Sep 2020 | 903 | <200 | 20e | 6e | 0.10 |
| S12 | 08 Sep 2020 | 920 | 2400e | 440e | 200e | 0.18 |
| S12 | 10 Sep 2020 | 915 | <20 | 4e | <2 | 0.20 |
| S12 | 15 Sep 2020 | 755 | <20 | 20e | <2 | 1.00 |
| S12 | 22 Sep 2020 | 1126 | <20 | 20e | <2 | 1.00 |
| S12 | 29 Sep 2020 | 834 | <20 | <20 | <2 | 1.00 |

ns = not sampled
na = not analyzed
ND = no data

Comments

| Station | Date | Depth | Parameter | Comments |
|---------|-------------|-------|-----------|---|
| S0 | 08 Sep 2020 | | | Samples not received; Samples outside of holding time because of coordination between IBWC and Mexico |
| S2 | 08 Sep 2020 | | | Samples not received; Samples outside of holding time because of coordination between IBWC and Mexico |
| S3 | 08 Sep 2020 | | | Samples not received; Samples outside of holding time because of coordination between IBWC and Mexico |
| S10 | 10 Sep 2020 | | | Resample |
| S11 | 10 Sep 2020 | | | Resample |
| S12 | 10 Sep 2020 | | | Resample |
| S4 | 10 Sep 2020 | | | Resample |
| S5 | 10 Sep 2020 | | | Resample |
| S6 | 10 Sep 2020 | | | Resample |

Table 2.9

Summary of visual observations made during the month for each SBOO shore station by sample date.

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S0 | 01 Sep 2020 | Arrive Time | 1020 |
| S0 | 01 Sep 2020 | Weather | Sunny |
| S0 | 01 Sep 2020 | Wind Speed (kts) | 1.5 |
| S0 | 01 Sep 2020 | Wind Dir | NE |
| S0 | 01 Sep 2020 | Animal Life | 5 Shorebirds |
| S0 | 01 Sep 2020 | Floatables | None |
| S0 | 01 Sep 2020 | Water Color | Green |
| S0 | 01 Sep 2020 | Current Direction | N |
| S0 | 01 Sep 2020 | Water Temp (C) | 19 |
| S0 | 01 Sep 2020 | Wave Height Low (ft) | 3 |
| S0 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S0 | 01 Sep 2020 | High Tide Time | 951 |
| S0 | 01 Sep 2020 | Low Tide (ft) | 1.4 |
| S0 | 01 Sep 2020 | Low Tide Time | 1524 |
| S0 | 01 Sep 2020 | Comments | Kelp; 1 Person; Water clear; Flow from storm drain is 1.0 L/sec |
| S0 | 08 Sep 2020 | Arrive Time | 1045 |
| S0 | 08 Sep 2020 | Weather | Cloudy |
| S0 | 08 Sep 2020 | Wind Speed (kts) | 6.2 |
| S0 | 08 Sep 2020 | Wind Dir | NE |
| S0 | 08 Sep 2020 | Animal Life | 20 Shorebirds |
| S0 | 08 Sep 2020 | Floatables | None |
| S0 | 08 Sep 2020 | Water Color | Grey |
| S0 | 08 Sep 2020 | Current Direction | N |
| S0 | 08 Sep 2020 | Water Temp (C) | 19 |
| S0 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S0 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S0 | 08 Sep 2020 | High Tide Time | 1303 |
| S0 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S0 | 08 Sep 2020 | Low Tide Time | 624 |
| S0 | 08 Sep 2020 | Comments | Kelp; Water turbid; 0.5 L/sec water flowing from storm drain |
| S0 | 15 Sep 2020 | Arrive Time | 1000 |
| S0 | 15 Sep 2020 | Weather | Sunny |
| S0 | 15 Sep 2020 | Wind Speed (kts) | 3.2 |
| S0 | 15 Sep 2020 | Wind Dir | NE |
| S0 | 15 Sep 2020 | Animal Life | 15 Shorebirds |
| S0 | 15 Sep 2020 | Floatables | None |
| S0 | 15 Sep 2020 | Water Color | Green |
| S0 | 15 Sep 2020 | Current Direction | N |
| S0 | 15 Sep 2020 | Water Temp (C) | 16 |
| S0 | 15 Sep 2020 | Wave Height Low (ft) | 3 |
| S0 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S0 | 15 Sep 2020 | High Tide Time | 846 |
| S0 | 15 Sep 2020 | Low Tide (ft) | 1.3 |
| S0 | 15 Sep 2020 | Low Tide Time | 1420 |
| S0 | 15 Sep 2020 | Comments | Kelp; Water turbid; 0.5 L/sec water flowing from storm drain |
| S0 | 22 Sep 2020 | Arrive Time | 950 |
| S0 | 22 Sep 2020 | Weather | Sunny |
| S0 | 22 Sep 2020 | Wind Speed (kts) | 3.4 |
| S0 | 22 Sep 2020 | Wind Dir | NE |
| S0 | 22 Sep 2020 | Animal Life | 10 Shorebirds |
| S0 | 22 Sep 2020 | Floatables | None |
| S0 | 22 Sep 2020 | Water Color | Blue |
| S0 | 22 Sep 2020 | Current Direction | N |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S0 | 22 Sep 2020 | Water Temp (C) | 16 |
| S0 | 22 Sep 2020 | Wave Height Low (ft) | 3 |
| S0 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S0 | 22 Sep 2020 | High Tide Time | 1316 |
| S0 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S0 | 22 Sep 2020 | Low Tide Time | 648 |
| S0 | 22 Sep 2020 | Comments | Kelp; Water clear; 0.5 L/sec water flowing from storm drain |
| S0 | 29 Sep 2020 | Arrive Time | 1125 |
| S0 | 29 Sep 2020 | Weather | Sunny |
| S0 | 29 Sep 2020 | Wind Speed (kts) | 8.1 |
| S0 | 29 Sep 2020 | Wind Dir | NE |
| S0 | 29 Sep 2020 | Animal Life | 1 Dog |
| S0 | 29 Sep 2020 | Floatables | None |
| S0 | 29 Sep 2020 | Water Color | Blue |
| S0 | 29 Sep 2020 | Current Direction | N |
| S0 | 29 Sep 2020 | Water Temp (C) | 18 |
| S0 | 29 Sep 2020 | Wave Height Low (ft) | 3 |
| S0 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S0 | 29 Sep 2020 | High Tide Time | 849 |
| S0 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S0 | 29 Sep 2020 | Low Tide Time | 1440 |
| S0 | 29 Sep 2020 | Comments | Kelp; 1 Person; Water turbid; 0.5 L/sec water flowing from storm drain |
| S2 | 01 Sep 2020 | Arrive Time | 945 |
| S2 | 01 Sep 2020 | Weather | Cloudy |
| S2 | 01 Sep 2020 | Wind Speed (kts) | 1.1 |
| S2 | 01 Sep 2020 | Wind Dir | NE |
| S2 | 01 Sep 2020 | Animal Life | 10 Shorebirds; 1 Dog |
| S2 | 01 Sep 2020 | Floatables | None |
| S2 | 01 Sep 2020 | Water Color | Green |
| S2 | 01 Sep 2020 | Current Direction | N |
| S2 | 01 Sep 2020 | Water Temp (C) | 19 |
| S2 | 01 Sep 2020 | Wave Height Low (ft) | 3 |
| S2 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S2 | 01 Sep 2020 | High Tide Time | 951 |
| S2 | 01 Sep 2020 | Low Tide (ft) | 1.4 |
| S2 | 01 Sep 2020 | Low Tide Time | 1524 |
| S2 | 01 Sep 2020 | Comments | Kelp; 10 Persons; Water clear; No flow from storm drain |
| S2 | 08 Sep 2020 | Arrive Time | 1005 |
| S2 | 08 Sep 2020 | Weather | Cloudy |
| S2 | 08 Sep 2020 | Wind Speed (kts) | 2.4 |
| S2 | 08 Sep 2020 | Wind Dir | NE |
| S2 | 08 Sep 2020 | Animal Life | 20 Shorebirds; 2 Dogs |
| S2 | 08 Sep 2020 | Floatables | None |
| S2 | 08 Sep 2020 | Water Color | Grey |
| S2 | 08 Sep 2020 | Current Direction | N |
| S2 | 08 Sep 2020 | Water Temp (C) | 19 |
| S2 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S2 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S2 | 08 Sep 2020 | High Tide Time | 1303 |
| S2 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S2 | 08 Sep 2020 | Low Tide Time | 624 |
| S2 | 08 Sep 2020 | Comments | Kelp; Water turbid; No flow from storm drain |
| S2 | 15 Sep 2020 | Arrive Time | 1058 |
| S2 | 15 Sep 2020 | Weather | Sunny |
| S2 | 15 Sep 2020 | Wind Speed (kts) | 3.3 |
| S2 | 15 Sep 2020 | Wind Dir | NE |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S2 | 15 Sep 2020 | Animal Life | 20 Shorebirds |
| S2 | 15 Sep 2020 | Floatables | None |
| S2 | 15 Sep 2020 | Water Color | Green |
| S2 | 15 Sep 2020 | Current Direction | N |
| S2 | 15 Sep 2020 | Water Temp (C) | 16 |
| S2 | 15 Sep 2020 | Wave Height Low (ft) | 3 |
| S2 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S2 | 15 Sep 2020 | High Tide Time | 846 |
| S2 | 15 Sep 2020 | Low Tide (ft) | 1.3 |
| S2 | 15 Sep 2020 | Low Tide Time | 1420 |
| S2 | 15 Sep 2020 | Comments | Kelp; 2 Persons; Water turbid; No flow from storm drain |
| S2 | 22 Sep 2020 | Arrive Time | 1150 |
| S2 | 22 Sep 2020 | Weather | Sunny |
| S2 | 22 Sep 2020 | Wind Speed (kts) | 1.3 |
| S2 | 22 Sep 2020 | Wind Dir | NE |
| S2 | 22 Sep 2020 | Animal Life | 10 Shorebirds; 4 Dogs |
| S2 | 22 Sep 2020 | Floatables | None |
| S2 | 22 Sep 2020 | Water Color | Blue |
| S2 | 22 Sep 2020 | Current Direction | N |
| S2 | 22 Sep 2020 | Water Temp (C) | 16 |
| S2 | 22 Sep 2020 | Wave Height Low (ft) | 3 |
| S2 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S2 | 22 Sep 2020 | High Tide Time | 1316 |
| S2 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S2 | 22 Sep 2020 | Low Tide Time | 648 |
| S2 | 22 Sep 2020 | Comments | Kelp; 4 Persons; Water clear; No flow from storm drain |
| S2 | 29 Sep 2020 | Arrive Time | 1220 |
| S2 | 29 Sep 2020 | Weather | Sunny |
| S2 | 29 Sep 2020 | Wind Speed (kts) | 7.2 |
| S2 | 29 Sep 2020 | Wind Dir | NE |
| S2 | 29 Sep 2020 | Animal Life | 2 Dogs |
| S2 | 29 Sep 2020 | Floatables | None |
| S2 | 29 Sep 2020 | Water Color | Blue |
| S2 | 29 Sep 2020 | Current Direction | N |
| S2 | 29 Sep 2020 | Water Temp (C) | 18 |
| S2 | 29 Sep 2020 | Wave Height Low (ft) | 3 |
| S2 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S2 | 29 Sep 2020 | High Tide Time | 849 |
| S2 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S2 | 29 Sep 2020 | Low Tide Time | 1440 |
| S2 | 29 Sep 2020 | Comments | 5 Persons; Water clear; No flow from storm drain |
| S3 | 01 Sep 2020 | Arrive Time | 910 |
| S3 | 01 Sep 2020 | Weather | Cloudy |
| S3 | 01 Sep 2020 | Wind Speed (kts) | 1 |
| S3 | 01 Sep 2020 | Wind Dir | NE |
| S3 | 01 Sep 2020 | Animal Life | 5 Shorebirds; 3 Dogs |
| S3 | 01 Sep 2020 | Floatables | None |
| S3 | 01 Sep 2020 | Water Color | Green |
| S3 | 01 Sep 2020 | Current Direction | N |
| S3 | 01 Sep 2020 | Water Temp (C) | 19 |
| S3 | 01 Sep 2020 | Wave Height Low (ft) | 3 |
| S3 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S3 | 01 Sep 2020 | High Tide Time | 951 |
| S3 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S3 | 01 Sep 2020 | Low Tide Time | 342 |
| S3 | 01 Sep 2020 | Comments | Kelp; 10 Persons; Water clear; Flow from storm drain is 0.5 L/sec |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S3 | 08 Sep 2020 | Arrive Time | 945 |
| S3 | 08 Sep 2020 | Weather | Cloudy |
| S3 | 08 Sep 2020 | Wind Speed (kts) | 1.7 |
| S3 | 08 Sep 2020 | Wind Dir | NE |
| S3 | 08 Sep 2020 | Animal Life | 20 Shorebirds; 3 Dogs |
| S3 | 08 Sep 2020 | Floatables | None |
| S3 | 08 Sep 2020 | Water Color | Grey |
| S3 | 08 Sep 2020 | Current Direction | N |
| S3 | 08 Sep 2020 | Water Temp (C) | 19 |
| S3 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S3 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S3 | 08 Sep 2020 | High Tide Time | 1303 |
| S3 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S3 | 08 Sep 2020 | Low Tide Time | 624 |
| S3 | 08 Sep 2020 | Comments | Kelp; Water turbid; No flow from storm drain |
| S3 | 15 Sep 2020 | Arrive Time | 1132 |
| S3 | 15 Sep 2020 | Weather | Sunny |
| S3 | 15 Sep 2020 | Wind Speed (kts) | 3.4 |
| S3 | 15 Sep 2020 | Wind Dir | NE |
| S3 | 15 Sep 2020 | Animal Life | 20 Shorebirds |
| S3 | 15 Sep 2020 | Floatables | None |
| S3 | 15 Sep 2020 | Water Color | Green |
| S3 | 15 Sep 2020 | Current Direction | N |
| S3 | 15 Sep 2020 | Water Temp (C) | 16 |
| S3 | 15 Sep 2020 | Wave Height Low (ft) | 3 |
| S3 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S3 | 15 Sep 2020 | High Tide Time | 846 |
| S3 | 15 Sep 2020 | Low Tide (ft) | 1.3 |
| S3 | 15 Sep 2020 | Low Tide Time | 1420 |
| S3 | 15 Sep 2020 | Comments | Kelp; Water turbid; No flow from storm drain |
| S3 | 22 Sep 2020 | Arrive Time | 1115 |
| S3 | 22 Sep 2020 | Weather | Sunny |
| S3 | 22 Sep 2020 | Wind Speed (kts) | 1.5 |
| S3 | 22 Sep 2020 | Wind Dir | NE |
| S3 | 22 Sep 2020 | Animal Life | 5 Shorebirds |
| S3 | 22 Sep 2020 | Floatables | None |
| S3 | 22 Sep 2020 | Water Color | Blue |
| S3 | 22 Sep 2020 | Current Direction | N |
| S3 | 22 Sep 2020 | Water Temp (C) | 16 |
| S3 | 22 Sep 2020 | Wave Height Low (ft) | 3 |
| S3 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S3 | 22 Sep 2020 | High Tide Time | 1316 |
| S3 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S3 | 22 Sep 2020 | Low Tide Time | 648 |
| S3 | 22 Sep 2020 | Comments | Kelp; Water clear; 0.5 L/sec water flowing from storm drain |
| S3 | 29 Sep 2020 | Arrive Time | 1245 |
| S3 | 29 Sep 2020 | Weather | Sunny |
| S3 | 29 Sep 2020 | Wind Speed (kts) | 7.6 |
| S3 | 29 Sep 2020 | Wind Dir | NE |
| S3 | 29 Sep 2020 | Animal Life | 1 Dog |
| S3 | 29 Sep 2020 | Floatables | None |
| S3 | 29 Sep 2020 | Water Color | Blue |
| S3 | 29 Sep 2020 | Current Direction | N |
| S3 | 29 Sep 2020 | Water Temp (C) | 18 |
| S3 | 29 Sep 2020 | Wave Height Low (ft) | 3 |
| S3 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S3 | 29 Sep 2020 | High Tide Time | 849 |
| S3 | 29 Sep 2020 | Low Tide (ft) | 1.2 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S3 | 29 Sep 2020 | Low Tide Time | 1440 |
| S3 | 29 Sep 2020 | Comments | Kelp; Water clear; No flow from storm drain |
| S4 | 01 Sep 2020 | Arrive Time | 757 |
| S4 | 01 Sep 2020 | Weather | Cloudy |
| S4 | 01 Sep 2020 | Wind Speed (kts) | 1.9 |
| S4 | 01 Sep 2020 | Wind Dir | W |
| S4 | 01 Sep 2020 | Animal Life | 42 Godwits; 2 Plovers |
| S4 | 01 Sep 2020 | Floatables | None |
| S4 | 01 Sep 2020 | Water Color | Green |
| S4 | 01 Sep 2020 | Current Direction | S |
| S4 | 01 Sep 2020 | Water Temp (C) | 20.1 |
| S4 | 01 Sep 2020 | Wave Height Low (ft) | 1 |
| S4 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S4 | 01 Sep 2020 | High Tide Time | 951 |
| S4 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S4 | 01 Sep 2020 | Low Tide Time | 342 |
| S4 | 01 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S4 | 08 Sep 2020 | Arrive Time | 752 |
| S4 | 08 Sep 2020 | Weather | Drizzle |
| S4 | 08 Sep 2020 | Wind Speed (kts) | 1.7 |
| S4 | 08 Sep 2020 | Wind Dir | W |
| S4 | 08 Sep 2020 | Animal Life | 17 Godwits; 5 Seals; 1 Tern |
| S4 | 08 Sep 2020 | Floatables | None |
| S4 | 08 Sep 2020 | Water Color | Grey |
| S4 | 08 Sep 2020 | Current Direction | N |
| S4 | 08 Sep 2020 | Water Temp (C) | 20.9 |
| S4 | 08 Sep 2020 | Wave Height Low (ft) | 2 |
| S4 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S4 | 08 Sep 2020 | High Tide Time | 1303 |
| S4 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S4 | 08 Sep 2020 | Low Tide Time | 624 |
| S4 | 08 Sep 2020 | Comments | Kelp; Seagrass; Water clear; Trash-1 |
| S4 | 10 Sep 2020 | Arrive Time | 1004 |
| S4 | 10 Sep 2020 | Weather | Hazy |
| S4 | 10 Sep 2020 | Wind Speed (kts) | 4.8 |
| S4 | 10 Sep 2020 | Wind Dir | NW |
| S4 | 10 Sep 2020 | Animal Life | 70 Godwits; 6 Plovers; 2 Terns |
| S4 | 10 Sep 2020 | Floatables | None |
| S4 | 10 Sep 2020 | Water Color | Green |
| S4 | 10 Sep 2020 | Current Direction | S |
| S4 | 10 Sep 2020 | Water Temp (C) | 22.3 |
| S4 | 10 Sep 2020 | Wave Height Low (ft) | 2 |
| S4 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S4 | 10 Sep 2020 | High Tide Time | 1526 |
| S4 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S4 | 10 Sep 2020 | Low Tide Time | 2218 |
| S4 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; Debris; Water clear; Debris 1 |
| S4 | 15 Sep 2020 | Arrive Time | 829 |
| S4 | 15 Sep 2020 | Weather | Hazy |
| S4 | 15 Sep 2020 | Wind Speed (kts) | 4.4 |
| S4 | 15 Sep 2020 | Wind Dir | E |
| S4 | 15 Sep 2020 | Animal Life | 100 Godwits; 20 Seagulls |
| S4 | 15 Sep 2020 | Floatables | None |
| S4 | 15 Sep 2020 | Water Color | Green |
| S4 | 15 Sep 2020 | Current Direction | S |
| S4 | 15 Sep 2020 | Water Temp (C) | 18.9 |
| S4 | 15 Sep 2020 | Wave Height Low (ft) | 3 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S4 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S4 | 15 Sep 2020 | High Tide Time | 846 |
| S4 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S4 | 15 Sep 2020 | Low Tide Time | 232 |
| S4 | 15 Sep 2020 | Comments | Kelp; Seagrass; Debris; Water clear; Debris1 |
| S4 | 22 Sep 2020 | Arrive Time | 805 |
| S4 | 22 Sep 2020 | Weather | Cloudy |
| S4 | 22 Sep 2020 | Wind Speed (kts) | 4.6 |
| S4 | 22 Sep 2020 | Wind Dir | N |
| S4 | 22 Sep 2020 | Animal Life | 35 Godwits; 2 Pelicans; 45 Seagulls; 37 Terns |
| S4 | 22 Sep 2020 | Floatables | None |
| S4 | 22 Sep 2020 | Water Color | Green |
| S4 | 22 Sep 2020 | Current Direction | S |
| S4 | 22 Sep 2020 | Water Temp (C) | 19.6 |
| S4 | 22 Sep 2020 | Wave Height Low (ft) | 2 |
| S4 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S4 | 22 Sep 2020 | High Tide Time | 1316 |
| S4 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S4 | 22 Sep 2020 | Low Tide Time | 648 |
| S4 | 22 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S4 | 29 Sep 2020 | Arrive Time | 947 |
| S4 | 29 Sep 2020 | Weather | Sunny |
| S4 | 29 Sep 2020 | Wind Speed (kts) | 5 |
| S4 | 29 Sep 2020 | Wind Dir | N |
| S4 | 29 Sep 2020 | Animal Life | 6 Plovers; 50 Seagulls |
| S4 | 29 Sep 2020 | Floatables | Foam; Film |
| S4 | 29 Sep 2020 | Water Color | Green |
| S4 | 29 Sep 2020 | Current Direction | S |
| S4 | 29 Sep 2020 | Water Temp (C) | 19.7 |
| S4 | 29 Sep 2020 | Wave Height Low (ft) | 4 |
| S4 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S4 | 29 Sep 2020 | High Tide Time | 849 |
| S4 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S4 | 29 Sep 2020 | Low Tide Time | 1440 |
| S4 | 29 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S5 | 01 Sep 2020 | Arrive Time | 832 |
| S5 | 01 Sep 2020 | Weather | Cloudy |
| S5 | 01 Sep 2020 | Wind Speed (kts) | 3.1 |
| S5 | 01 Sep 2020 | Wind Dir | W |
| S5 | 01 Sep 2020 | Animal Life | 2 Cormorants; 5 Dolphins; 12 Pelicans; 15 Seagulls |
| S5 | 01 Sep 2020 | Floatables | None |
| S5 | 01 Sep 2020 | Water Color | Green |
| S5 | 01 Sep 2020 | Current Direction | S |
| S5 | 01 Sep 2020 | Water Temp (C) | 19.3 |
| S5 | 01 Sep 2020 | Wave Height Low (ft) | 2 |
| S5 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S5 | 01 Sep 2020 | High Tide Time | 951 |
| S5 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S5 | 01 Sep 2020 | Low Tide Time | 342 |
| S5 | 01 Sep 2020 | Comments | Kelp; Seagrass; Algae; 1 Person; Water clear |
| S5 | 08 Sep 2020 | Arrive Time | 846 |
| S5 | 08 Sep 2020 | Weather | Cloudy |
| S5 | 08 Sep 2020 | Wind Speed (kts) | 2.1 |
| S5 | 08 Sep 2020 | Wind Dir | SW |
| S5 | 08 Sep 2020 | Animal Life | 1 Seagull; 2 Terns |
| S5 | 08 Sep 2020 | Floatables | None |
| S5 | 08 Sep 2020 | Water Color | Grey |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S5 | 08 Sep 2020 | Current Direction | N |
| S5 | 08 Sep 2020 | Water Temp (C) | 20.7 |
| S5 | 08 Sep 2020 | Wave Height Low (ft) | 1 |
| S5 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S5 | 08 Sep 2020 | High Tide Time | 1303 |
| S5 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S5 | 08 Sep 2020 | Low Tide Time | 624 |
| S5 | 08 Sep 2020 | Comments | Kelp; Seagrass; Sewage-like odor; 4 Persons; Water clear; Trash-1 |
| S5 | 10 Sep 2020 | Arrive Time | 817 |
| S5 | 10 Sep 2020 | Weather | Hazy |
| S5 | 10 Sep 2020 | Wind Speed (kts) | 0 |
| S5 | 10 Sep 2020 | Wind Dir | |
| S5 | 10 Sep 2020 | Animal Life | 2 Godwits; 1 Pelican; 1 Seagull |
| S5 | 10 Sep 2020 | Floatables | None |
| S5 | 10 Sep 2020 | Water Color | Green |
| S5 | 10 Sep 2020 | Current Direction | S |
| S5 | 10 Sep 2020 | Water Temp (C) | 20.8 |
| S5 | 10 Sep 2020 | Wave Height Low (ft) | 3 |
| S5 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S5 | 10 Sep 2020 | High Tide Time | 1526 |
| S5 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S5 | 10 Sep 2020 | Low Tide Time | 2218 |
| S5 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; Algae; 2 Persons; Water clear |
| S5 | 15 Sep 2020 | Arrive Time | 731 |
| S5 | 15 Sep 2020 | Weather | Hazy |
| S5 | 15 Sep 2020 | Wind Speed (kts) | 2.1 |
| S5 | 15 Sep 2020 | Wind Dir | E |
| S5 | 15 Sep 2020 | Animal Life | 1 Dog; 4 Pelicans; 4 Plovers |
| S5 | 15 Sep 2020 | Floatables | None |
| S5 | 15 Sep 2020 | Water Color | Green |
| S5 | 15 Sep 2020 | Current Direction | S |
| S5 | 15 Sep 2020 | Water Temp (C) | 17.8 |
| S5 | 15 Sep 2020 | Wave Height Low (ft) | 1 |
| S5 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S5 | 15 Sep 2020 | High Tide Time | 846 |
| S5 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S5 | 15 Sep 2020 | Low Tide Time | 232 |
| S5 | 15 Sep 2020 | Comments | Kelp; Seagrass; Algae; Debris; 1 Person; Water clear; Debris 2 |
| S5 | 22 Sep 2020 | Arrive Time | 1039 |
| S5 | 22 Sep 2020 | Weather | Sunny |
| S5 | 22 Sep 2020 | Wind Speed (kts) | 4.8 |
| S5 | 22 Sep 2020 | Wind Dir | N |
| S5 | 22 Sep 2020 | Animal Life | None |
| S5 | 22 Sep 2020 | Floatables | Foam; Film |
| S5 | 22 Sep 2020 | Water Color | Brown |
| S5 | 22 Sep 2020 | Current Direction | S |
| S5 | 22 Sep 2020 | Water Temp (C) | 21.1 |
| S5 | 22 Sep 2020 | Wave Height Low (ft) | 3 |
| S5 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S5 | 22 Sep 2020 | High Tide Time | 1316 |
| S5 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S5 | 22 Sep 2020 | Low Tide Time | 648 |
| S5 | 22 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S5 | 29 Sep 2020 | Arrive Time | 853 |
| S5 | 29 Sep 2020 | Weather | Sunny |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S5 | 29 Sep 2020 | Wind Speed (kts) | 5.2 |
| S5 | 29 Sep 2020 | Wind Dir | N |
| S5 | 29 Sep 2020 | Animal Life | 2 Dogs; 4 Pelicans; 20 Terns |
| S5 | 29 Sep 2020 | Floatables | Foam |
| S5 | 29 Sep 2020 | Water Color | Green |
| S5 | 29 Sep 2020 | Current Direction | S |
| S5 | 29 Sep 2020 | Water Temp (C) | 21.6 |
| S5 | 29 Sep 2020 | Wave Height Low (ft) | 4 |
| S5 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S5 | 29 Sep 2020 | High Tide Time | 849 |
| S5 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S5 | 29 Sep 2020 | Low Tide Time | 1440 |
| S5 | 29 Sep 2020 | Comments | Kelp; Seagrass; 6 Persons; Water clear; 1 Jet ski |
| S6 | 01 Sep 2020 | Arrive Time | 848 |
| S6 | 01 Sep 2020 | Weather | Cloudy |
| S6 | 01 Sep 2020 | Wind Speed (kts) | 3.6 |
| S6 | 01 Sep 2020 | Wind Dir | W |
| S6 | 01 Sep 2020 | Animal Life | 2 Dogs; 2 Dolphins; 3 Godwits; 2 Pelicans |
| S6 | 01 Sep 2020 | Floatables | None |
| S6 | 01 Sep 2020 | Water Color | Green |
| S6 | 01 Sep 2020 | Current Direction | S |
| S6 | 01 Sep 2020 | Water Temp (C) | 20.2 |
| S6 | 01 Sep 2020 | Wave Height Low (ft) | 2 |
| S6 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S6 | 01 Sep 2020 | High Tide Time | 951 |
| S6 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S6 | 01 Sep 2020 | Low Tide Time | 342 |
| S6 | 01 Sep 2020 | Comments | Kelp; Seagrass; Algae; Debris; 2 Persons; 3 Surfers; Water clear; Debris 1 |
| S6 | 08 Sep 2020 | Arrive Time | 902 |
| S6 | 08 Sep 2020 | Weather | Cloudy |
| S6 | 08 Sep 2020 | Wind Speed (kts) | 3.1 |
| S6 | 08 Sep 2020 | Wind Dir | SW |
| S6 | 08 Sep 2020 | Animal Life | 2 Godwits; 2 Terns |
| S6 | 08 Sep 2020 | Floatables | None |
| S6 | 08 Sep 2020 | Water Color | Grey |
| S6 | 08 Sep 2020 | Current Direction | N |
| S6 | 08 Sep 2020 | Water Temp (C) | 20.6 |
| S6 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S6 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S6 | 08 Sep 2020 | High Tide Time | 1303 |
| S6 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S6 | 08 Sep 2020 | Low Tide Time | 624 |
| S6 | 08 Sep 2020 | Comments | Kelp; Seagrass; 1 Person; 6 Surfers; Water turbid |
| S6 | 10 Sep 2020 | Arrive Time | 841 |
| S6 | 10 Sep 2020 | Weather | Hazy |
| S6 | 10 Sep 2020 | Wind Speed (kts) | 1.7 |
| S6 | 10 Sep 2020 | Wind Dir | NW |
| S6 | 10 Sep 2020 | Animal Life | None |
| S6 | 10 Sep 2020 | Floatables | None |
| S6 | 10 Sep 2020 | Water Color | Green |
| S6 | 10 Sep 2020 | Current Direction | S |
| S6 | 10 Sep 2020 | Water Temp (C) | 21.5 |
| S6 | 10 Sep 2020 | Wave Height Low (ft) | 2 |
| S6 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S6 | 10 Sep 2020 | High Tide Time | 1526 |
| S6 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S6 | 10 Sep 2020 | Low Tide Time | 2218 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S6 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; 1 Jogger; 2 Persons; 12 Surfers; Water clear |
| S6 | 15 Sep 2020 | Arrive Time | 745 |
| S6 | 15 Sep 2020 | Weather | Hazy |
| S6 | 15 Sep 2020 | Wind Speed (kts) | 1.7 |
| S6 | 15 Sep 2020 | Wind Dir | NE |
| S6 | 15 Sep 2020 | Animal Life | 1 Dog |
| S6 | 15 Sep 2020 | Floatables | Foam |
| S6 | 15 Sep 2020 | Water Color | Green |
| S6 | 15 Sep 2020 | Current Direction | S |
| S6 | 15 Sep 2020 | Water Temp (C) | 18.8 |
| S6 | 15 Sep 2020 | Wave Height Low (ft) | 3 |
| S6 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S6 | 15 Sep 2020 | High Tide Time | 846 |
| S6 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S6 | 15 Sep 2020 | Low Tide Time | 232 |
| S6 | 15 Sep 2020 | Comments | Kelp; Seagrass; Algae; 5 Persons; Water clear |
| S6 | 22 Sep 2020 | Arrive Time | 1058 |
| S6 | 22 Sep 2020 | Weather | Sunny |
| S6 | 22 Sep 2020 | Wind Speed (kts) | 7.1 |
| S6 | 22 Sep 2020 | Wind Dir | NW |
| S6 | 22 Sep 2020 | Animal Life | None |
| S6 | 22 Sep 2020 | Floatables | Foam; Film |
| S6 | 22 Sep 2020 | Water Color | Green |
| S6 | 22 Sep 2020 | Current Direction | S |
| S6 | 22 Sep 2020 | Water Temp (C) | 21.9 |
| S6 | 22 Sep 2020 | Wave Height Low (ft) | 2 |
| S6 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S6 | 22 Sep 2020 | High Tide Time | 1316 |
| S6 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S6 | 22 Sep 2020 | Low Tide Time | 648 |
| S6 | 22 Sep 2020 | Comments | Kelp; Seagrass; Algae; 3 Persons; 3 Surfers; Water turbid |
| S6 | 29 Sep 2020 | Arrive Time | 909 |
| S6 | 29 Sep 2020 | Weather | Sunny |
| S6 | 29 Sep 2020 | Wind Speed (kts) | 4 |
| S6 | 29 Sep 2020 | Wind Dir | N |
| S6 | 29 Sep 2020 | Animal Life | 2 Dogs |
| S6 | 29 Sep 2020 | Floatables | None |
| S6 | 29 Sep 2020 | Water Color | Green |
| S6 | 29 Sep 2020 | Current Direction | S |
| S6 | 29 Sep 2020 | Water Temp (C) | 21.1 |
| S6 | 29 Sep 2020 | Wave Height Low (ft) | 3 |
| S6 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S6 | 29 Sep 2020 | High Tide Time | 849 |
| S6 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S6 | 29 Sep 2020 | Low Tide Time | 1440 |
| S6 | 29 Sep 2020 | Comments | Kelp; Seagrass; 1 Jogger; 8 Persons; 7 Surfers; Water clear |
| S8 | 01 Sep 2020 | Arrive Time | 942 |
| S8 | 01 Sep 2020 | Weather | Partly Cloudy |
| S8 | 01 Sep 2020 | Wind Speed (kts) | 4.6 |
| S8 | 01 Sep 2020 | Wind Dir | W |
| S8 | 01 Sep 2020 | Animal Life | None |
| S8 | 01 Sep 2020 | Floatables | Foam |
| S8 | 01 Sep 2020 | Water Color | Green |
| S8 | 01 Sep 2020 | Current Direction | S |
| S8 | 01 Sep 2020 | Water Temp (C) | 21.6 |
| S8 | 01 Sep 2020 | Wave Height Low (ft) | 1 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S8 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S8 | 01 Sep 2020 | High Tide Time | 951 |
| S8 | 01 Sep 2020 | Low Tide (ft) | 1.4 |
| S8 | 01 Sep 2020 | Low Tide Time | 1524 |
| S8 | 01 Sep 2020 | Comments | Kelp; Seagrass; 5 Persons; 1 Fisherman; Water clear |
| S8 | 08 Sep 2020 | Arrive Time | 957 |
| S8 | 08 Sep 2020 | Weather | Cloudy |
| S8 | 08 Sep 2020 | Wind Speed (kts) | 2.1 |
| S8 | 08 Sep 2020 | Wind Dir | W |
| S8 | 08 Sep 2020 | Animal Life | 3 Godwits; 1 Grebe; 2 Seagulls; 4 Terns |
| S8 | 08 Sep 2020 | Floatables | None |
| S8 | 08 Sep 2020 | Water Color | Green |
| S8 | 08 Sep 2020 | Current Direction | N |
| S8 | 08 Sep 2020 | Water Temp (C) | 22.3 |
| S8 | 08 Sep 2020 | Wave Height Low (ft) | 1 |
| S8 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S8 | 08 Sep 2020 | High Tide Time | 1303 |
| S8 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S8 | 08 Sep 2020 | Low Tide Time | 624 |
| S8 | 08 Sep 2020 | Comments | Kelp; Seagrass; 9 Persons; Water clear |
| S8 | 15 Sep 2020 | Arrive Time | 925 |
| S8 | 15 Sep 2020 | Weather | Hazy |
| S8 | 15 Sep 2020 | Wind Speed (kts) | 1.1 |
| S8 | 15 Sep 2020 | Wind Dir | E |
| S8 | 15 Sep 2020 | Animal Life | 136 Plovers; 2 Seagulls |
| S8 | 15 Sep 2020 | Floatables | None |
| S8 | 15 Sep 2020 | Water Color | Green |
| S8 | 15 Sep 2020 | Current Direction | S |
| S8 | 15 Sep 2020 | Water Temp (C) | 22.1 |
| S8 | 15 Sep 2020 | Wave Height Low (ft) | 2 |
| S8 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S8 | 15 Sep 2020 | High Tide Time | 846 |
| S8 | 15 Sep 2020 | Low Tide (ft) | 1.3 |
| S8 | 15 Sep 2020 | Low Tide Time | 1420 |
| S8 | 15 Sep 2020 | Comments | Kelp; Seagrass; 4 Persons; Water clear |
| S8 | 22 Sep 2020 | Arrive Time | 1143 |
| S8 | 22 Sep 2020 | Weather | Sunny |
| S8 | 22 Sep 2020 | Wind Speed (kts) | 6.2 |
| S8 | 22 Sep 2020 | Wind Dir | W |
| S8 | 22 Sep 2020 | Animal Life | 55 Seagulls |
| S8 | 22 Sep 2020 | Floatables | Foam; Film |
| S8 | 22 Sep 2020 | Water Color | Brown |
| S8 | 22 Sep 2020 | Current Direction | S |
| S8 | 22 Sep 2020 | Water Temp (C) | 21.2 |
| S8 | 22 Sep 2020 | Wave Height Low (ft) | 2 |
| S8 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S8 | 22 Sep 2020 | High Tide Time | 1316 |
| S8 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S8 | 22 Sep 2020 | Low Tide Time | 648 |
| S8 | 22 Sep 2020 | Comments | Kelp; Seagrass; 2 Persons; 1 Swimmer; Water turbid |
| S8 | 29 Sep 2020 | Arrive Time | 740 |
| S8 | 29 Sep 2020 | Weather | Foggy |
| S8 | 29 Sep 2020 | Wind Speed (kts) | 1.1 |
| S8 | 29 Sep 2020 | Wind Dir | E |
| S8 | 29 Sep 2020 | Animal Life | 1 Godwit; 60 Plovers; 3 Seagulls |
| S8 | 29 Sep 2020 | Floatables | Foam |
| S8 | 29 Sep 2020 | Water Color | Green |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S8 | 29 Sep 2020 | Current Direction | S |
| S8 | 29 Sep 2020 | Water Temp (C) | 20.4 |
| S8 | 29 Sep 2020 | Wave Height Low (ft) | 1 |
| S8 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S8 | 29 Sep 2020 | High Tide Time | 849 |
| S8 | 29 Sep 2020 | Low Tide (ft) | 0 |
| S8 | 29 Sep 2020 | Low Tide Time | 239 |
| S8 | 29 Sep 2020 | Comments | Kelp; Seagrass; 5 Persons; 1 Fisherman; Water clear |
| S9 | 01 Sep 2020 | Arrive Time | 1001 |
| S9 | 01 Sep 2020 | Weather | Partly Cloudy |
| S9 | 01 Sep 2020 | Wind Speed (kts) | 5.4 |
| S9 | 01 Sep 2020 | Wind Dir | N |
| S9 | 01 Sep 2020 | Animal Life | None |
| S9 | 01 Sep 2020 | Floatables | Foam |
| S9 | 01 Sep 2020 | Water Color | Brown |
| S9 | 01 Sep 2020 | Current Direction | S |
| S9 | 01 Sep 2020 | Water Temp (C) | 22 |
| S9 | 01 Sep 2020 | Wave Height Low (ft) | 1 |
| S9 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S9 | 01 Sep 2020 | High Tide Time | 951 |
| S9 | 01 Sep 2020 | Low Tide (ft) | 1.4 |
| S9 | 01 Sep 2020 | Low Tide Time | 1524 |
| S9 | 01 Sep 2020 | Comments | Kelp; Seagrass; Algae; 3 Persons; Water turbid |
| S9 | 08 Sep 2020 | Arrive Time | 1033 |
| S9 | 08 Sep 2020 | Weather | Cloudy |
| S9 | 08 Sep 2020 | Wind Speed (kts) | 3.1 |
| S9 | 08 Sep 2020 | Wind Dir | SW |
| S9 | 08 Sep 2020 | Animal Life | 1 Shorebird; 2 Pelicans; 1 Seagull; 8 Terns |
| S9 | 08 Sep 2020 | Floatables | None |
| S9 | 08 Sep 2020 | Water Color | Green |
| S9 | 08 Sep 2020 | Current Direction | N |
| S9 | 08 Sep 2020 | Water Temp (C) | 21.8 |
| S9 | 08 Sep 2020 | Wave Height Low (ft) | 1 |
| S9 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S9 | 08 Sep 2020 | High Tide Time | 1303 |
| S9 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S9 | 08 Sep 2020 | Low Tide Time | 624 |
| S9 | 08 Sep 2020 | Comments | Kelp; Seagrass; 2 Joggers; 5 Persons; 1 Tractor; Water turbid |
| S9 | 15 Sep 2020 | Arrive Time | 945 |
| S9 | 15 Sep 2020 | Weather | Hazy |
| S9 | 15 Sep 2020 | Wind Speed (kts) | 1.7 |
| S9 | 15 Sep 2020 | Wind Dir | W |
| S9 | 15 Sep 2020 | Animal Life | None |
| S9 | 15 Sep 2020 | Floatables | None |
| S9 | 15 Sep 2020 | Water Color | Brown |
| S9 | 15 Sep 2020 | Current Direction | S |
| S9 | 15 Sep 2020 | Water Temp (C) | 22.2 |
| S9 | 15 Sep 2020 | Wave Height Low (ft) | 1 |
| S9 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S9 | 15 Sep 2020 | High Tide Time | 846 |
| S9 | 15 Sep 2020 | Low Tide (ft) | 1.3 |
| S9 | 15 Sep 2020 | Low Tide Time | 1420 |
| S9 | 15 Sep 2020 | Comments | Kelp; Seagrass; 1 Jogger; 2 Persons; Water turbid |
| S9 | 22 Sep 2020 | Arrive Time | 1214 |
| S9 | 22 Sep 2020 | Weather | Sunny |
| S9 | 22 Sep 2020 | Wind Speed (kts) | 5.6 |
| S9 | 22 Sep 2020 | Wind Dir | N |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S9 | 22 Sep 2020 | Animal Life | 3 Seagulls |
| S9 | 22 Sep 2020 | Floatables | Foam |
| S9 | 22 Sep 2020 | Water Color | Brown |
| S9 | 22 Sep 2020 | Current Direction | S |
| S9 | 22 Sep 2020 | Water Temp (C) | 21.8 |
| S9 | 22 Sep 2020 | Wave Height Low (ft) | 1 |
| S9 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S9 | 22 Sep 2020 | High Tide Time | 1316 |
| S9 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S9 | 22 Sep 2020 | Low Tide Time | 648 |
| S9 | 22 Sep 2020 | Comments | Kelp; Seagrass; Debris; 10 Persons; Water turbid; 1 |
| S9 | 29 Sep 2020 | Arrive Time | 723 |
| S9 | 29 Sep 2020 | Weather | Foggy |
| S9 | 29 Sep 2020 | Wind Speed (kts) | 3.3 |
| S9 | 29 Sep 2020 | Wind Dir | E |
| S9 | 29 Sep 2020 | Animal Life | 2 Godwits; 6 Seagulls |
| S9 | 29 Sep 2020 | Floatables | Foam |
| S9 | 29 Sep 2020 | Water Color | Green |
| S9 | 29 Sep 2020 | Current Direction | S |
| S9 | 29 Sep 2020 | Water Temp (C) | 20.3 |
| S9 | 29 Sep 2020 | Wave Height Low (ft) | 1 |
| S9 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S9 | 29 Sep 2020 | High Tide Time | 849 |
| S9 | 29 Sep 2020 | Low Tide (ft) | 0 |
| S9 | 29 Sep 2020 | Low Tide Time | 239 |
| S9 | 29 Sep 2020 | Comments | Kelp; Seagrass; 4 Joggers; Water clear; Sewage-like odor |
| S10 | 01 Sep 2020 | Arrive Time | 751 |
| S10 | 01 Sep 2020 | Weather | Cloudy |
| S10 | 01 Sep 2020 | Wind Speed (kts) | 1.5 |
| S10 | 01 Sep 2020 | Wind Dir | W |
| S10 | 01 Sep 2020 | Animal Life | 2 Dolphins; 6 Godwits |
| S10 | 01 Sep 2020 | Floatables | None |
| S10 | 01 Sep 2020 | Water Color | Green |
| S10 | 01 Sep 2020 | Current Direction | S |
| S10 | 01 Sep 2020 | Water Temp (C) | 20.3 |
| S10 | 01 Sep 2020 | Wave Height Low (ft) | 2 |
| S10 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S10 | 01 Sep 2020 | High Tide Time | 951 |
| S10 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S10 | 01 Sep 2020 | Low Tide Time | 342 |
| S10 | 01 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S10 | 08 Sep 2020 | Arrive Time | 744 |
| S10 | 08 Sep 2020 | Weather | Cloudy |
| S10 | 08 Sep 2020 | Wind Speed (kts) | 0 |
| S10 | 08 Sep 2020 | Wind Dir | |
| S10 | 08 Sep 2020 | Animal Life | 1 Seagull |
| S10 | 08 Sep 2020 | Floatables | None |
| S10 | 08 Sep 2020 | Water Color | Grey |
| S10 | 08 Sep 2020 | Current Direction | N |
| S10 | 08 Sep 2020 | Water Temp (C) | 20.7 |
| S10 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S10 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S10 | 08 Sep 2020 | High Tide Time | 1303 |
| S10 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S10 | 08 Sep 2020 | Low Tide Time | 624 |
| S10 | 08 Sep 2020 | Comments | Kelp; Seagrass; Water clear; Trash-1 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S10 | 10 Sep 2020 | Arrive Time | 1014 |
| S10 | 10 Sep 2020 | Weather | Hazy |
| S10 | 10 Sep 2020 | Wind Speed (kts) | 3.6 |
| S10 | 10 Sep 2020 | Wind Dir | NW |
| S10 | 10 Sep 2020 | Animal Life | None |
| S10 | 10 Sep 2020 | Floatables | None |
| S10 | 10 Sep 2020 | Water Color | Green |
| S10 | 10 Sep 2020 | Current Direction | S |
| S10 | 10 Sep 2020 | Water Temp (C) | 22 |
| S10 | 10 Sep 2020 | Wave Height Low (ft) | 2 |
| S10 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S10 | 10 Sep 2020 | High Tide Time | 1526 |
| S10 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S10 | 10 Sep 2020 | Low Tide Time | 2218 |
| S10 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; Water clear |
| S10 | 15 Sep 2020 | Arrive Time | 823 |
| S10 | 15 Sep 2020 | Weather | Hazy |
| S10 | 15 Sep 2020 | Wind Speed (kts) | 3.4 |
| S10 | 15 Sep 2020 | Wind Dir | E |
| S10 | 15 Sep 2020 | Animal Life | 5 Godwits |
| S10 | 15 Sep 2020 | Floatables | None |
| S10 | 15 Sep 2020 | Water Color | Green |
| S10 | 15 Sep 2020 | Current Direction | S |
| S10 | 15 Sep 2020 | Water Temp (C) | 18.9 |
| S10 | 15 Sep 2020 | Wave Height Low (ft) | 2 |
| S10 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S10 | 15 Sep 2020 | High Tide Time | 846 |
| S10 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S10 | 15 Sep 2020 | Low Tide Time | 232 |
| S10 | 15 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S10 | 22 Sep 2020 | Arrive Time | 818 |
| S10 | 22 Sep 2020 | Weather | Cloudy |
| S10 | 22 Sep 2020 | Wind Speed (kts) | 3.1 |
| S10 | 22 Sep 2020 | Wind Dir | N |
| S10 | 22 Sep 2020 | Animal Life | 2 Plovers |
| S10 | 22 Sep 2020 | Floatables | None |
| S10 | 22 Sep 2020 | Water Color | Green |
| S10 | 22 Sep 2020 | Current Direction | N |
| S10 | 22 Sep 2020 | Water Temp (C) | 19.7 |
| S10 | 22 Sep 2020 | Wave Height Low (ft) | 2 |
| S10 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S10 | 22 Sep 2020 | High Tide Time | 1316 |
| S10 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S10 | 22 Sep 2020 | Low Tide Time | 648 |
| S10 | 22 Sep 2020 | Comments | Kelp; Seagrass; Sewage-like odor; Water clear |
| S10 | 29 Sep 2020 | Arrive Time | 940 |
| S10 | 29 Sep 2020 | Weather | Sunny |
| S10 | 29 Sep 2020 | Wind Speed (kts) | 4.6 |
| S10 | 29 Sep 2020 | Wind Dir | N |
| S10 | 29 Sep 2020 | Animal Life | None |
| S10 | 29 Sep 2020 | Floatables | Foam; Film |
| S10 | 29 Sep 2020 | Water Color | Brown |
| S10 | 29 Sep 2020 | Current Direction | S |
| S10 | 29 Sep 2020 | Water Temp (C) | 20.2 |
| S10 | 29 Sep 2020 | Wave Height Low (ft) | 4 |
| S10 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S10 | 29 Sep 2020 | High Tide Time | 849 |
| S10 | 29 Sep 2020 | Low Tide (ft) | 1.2 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S10 | 29 Sep 2020 | Low Tide Time | 1440 |
| S10 | 29 Sep 2020 | Comments | Kelp; Seagrass; Water clear |
| S11 | 01 Sep 2020 | Arrive Time | 843 |
| S11 | 01 Sep 2020 | Weather | Cloudy |
| S11 | 01 Sep 2020 | Wind Speed (kts) | 3.4 |
| S11 | 01 Sep 2020 | Wind Dir | W |
| S11 | 01 Sep 2020 | Animal Life | 2 Dogs; 1 Dolphin |
| S11 | 01 Sep 2020 | Floatables | Foam |
| S11 | 01 Sep 2020 | Water Color | Green |
| S11 | 01 Sep 2020 | Current Direction | S |
| S11 | 01 Sep 2020 | Water Temp (C) | 20.3 |
| S11 | 01 Sep 2020 | Wave Height Low (ft) | 2 |
| S11 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S11 | 01 Sep 2020 | High Tide Time | 951 |
| S11 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S11 | 01 Sep 2020 | Low Tide Time | 342 |
| S11 | 01 Sep 2020 | Comments | Kelp; Seagrass; Algae; 3 Persons; Water clear |
| S11 | 08 Sep 2020 | Arrive Time | 855 |
| S11 | 08 Sep 2020 | Weather | Cloudy |
| S11 | 08 Sep 2020 | Wind Speed (kts) | 1.9 |
| S11 | 08 Sep 2020 | Wind Dir | SW |
| S11 | 08 Sep 2020 | Animal Life | 1 Cormorant; 1 Dog; 1 Godwit |
| S11 | 08 Sep 2020 | Floatables | None |
| S11 | 08 Sep 2020 | Water Color | Grey |
| S11 | 08 Sep 2020 | Current Direction | N |
| S11 | 08 Sep 2020 | Water Temp (C) | 20.6 |
| S11 | 08 Sep 2020 | Wave Height Low (ft) | 3 |
| S11 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S11 | 08 Sep 2020 | High Tide Time | 1303 |
| S11 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S11 | 08 Sep 2020 | Low Tide Time | 624 |
| S11 | 08 Sep 2020 | Comments | Kelp; Seagrass; 3 Persons; Water turbid |
| S11 | 10 Sep 2020 | Arrive Time | 832 |
| S11 | 10 Sep 2020 | Weather | Hazy |
| S11 | 10 Sep 2020 | Wind Speed (kts) | 2.1 |
| S11 | 10 Sep 2020 | Wind Dir | N |
| S11 | 10 Sep 2020 | Animal Life | 1 Godwit; 1 Pelican |
| S11 | 10 Sep 2020 | Floatables | None |
| S11 | 10 Sep 2020 | Water Color | Green |
| S11 | 10 Sep 2020 | Current Direction | N |
| S11 | 10 Sep 2020 | Water Temp (C) | 20.7 |
| S11 | 10 Sep 2020 | Wave Height Low (ft) | 2 |
| S11 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S11 | 10 Sep 2020 | High Tide Time | 1526 |
| S11 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S11 | 10 Sep 2020 | Low Tide Time | 2218 |
| S11 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; 3 Persons; Water clear |
| S11 | 15 Sep 2020 | Arrive Time | 739 |
| S11 | 15 Sep 2020 | Weather | Hazy |
| S11 | 15 Sep 2020 | Wind Speed (kts) | 1.5 |
| S11 | 15 Sep 2020 | Wind Dir | NE |
| S11 | 15 Sep 2020 | Animal Life | 1 Dog; 3 Godwits |
| S11 | 15 Sep 2020 | Floatables | Foam; Dead Animals |
| S11 | 15 Sep 2020 | Water Color | Green |
| S11 | 15 Sep 2020 | Current Direction | S |
| S11 | 15 Sep 2020 | Water Temp (C) | 18.6 |
| S11 | 15 Sep 2020 | Wave Height Low (ft) | 2 |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|--|
| S11 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S11 | 15 Sep 2020 | High Tide Time | 846 |
| S11 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S11 | 15 Sep 2020 | Low Tide Time | 232 |
| S11 | 15 Sep 2020 | Comments | Kelp; Seagrass; 5 Persons; Water clear |
| S11 | 22 Sep 2020 | Arrive Time | 1050 |
| S11 | 22 Sep 2020 | Weather | Sunny |
| S11 | 22 Sep 2020 | Wind Speed (kts) | 6.4 |
| S11 | 22 Sep 2020 | Wind Dir | NW |
| S11 | 22 Sep 2020 | Animal Life | 2 Godwits |
| S11 | 22 Sep 2020 | Floatables | Foam |
| S11 | 22 Sep 2020 | Water Color | Green |
| S11 | 22 Sep 2020 | Current Direction | NW |
| S11 | 22 Sep 2020 | Water Temp (C) | 21.8 |
| S11 | 22 Sep 2020 | Wave Height Low (ft) | 3 |
| S11 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S11 | 22 Sep 2020 | High Tide Time | 1316 |
| S11 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S11 | 22 Sep 2020 | Low Tide Time | 648 |
| S11 | 22 Sep 2020 | Comments | Kelp; Seagrass; 1 Swimmer; Water clear |
| S11 | 29 Sep 2020 | Arrive Time | 902 |
| S11 | 29 Sep 2020 | Weather | Sunny |
| S11 | 29 Sep 2020 | Wind Speed (kts) | 6.4 |
| S11 | 29 Sep 2020 | Wind Dir | N |
| S11 | 29 Sep 2020 | Animal Life | None |
| S11 | 29 Sep 2020 | Floatables | Foam |
| S11 | 29 Sep 2020 | Water Color | Green |
| S11 | 29 Sep 2020 | Current Direction | S |
| S11 | 29 Sep 2020 | Water Temp (C) | 20.9 |
| S11 | 29 Sep 2020 | Wave Height Low (ft) | 4 |
| S11 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S11 | 29 Sep 2020 | High Tide Time | 849 |
| S11 | 29 Sep 2020 | Low Tide (ft) | 1.2 |
| S11 | 29 Sep 2020 | Low Tide Time | 1440 |
| S11 | 29 Sep 2020 | Comments | Kelp; Seagrass; 2 Persons; Water clear |
| S12 | 01 Sep 2020 | Arrive Time | 903 |
| S12 | 01 Sep 2020 | Weather | Cloudy |
| S12 | 01 Sep 2020 | Wind Speed (kts) | 2.5 |
| S12 | 01 Sep 2020 | Wind Dir | W |
| S12 | 01 Sep 2020 | Animal Life | 1 Dog; 19 Godwits |
| S12 | 01 Sep 2020 | Floatables | Foam |
| S12 | 01 Sep 2020 | Water Color | Green |
| S12 | 01 Sep 2020 | Current Direction | S |
| S12 | 01 Sep 2020 | Water Temp (C) | 20.9 |
| S12 | 01 Sep 2020 | Wave Height Low (ft) | 1 |
| S12 | 01 Sep 2020 | High Tide (ft) | 4.6 |
| S12 | 01 Sep 2020 | High Tide Time | 951 |
| S12 | 01 Sep 2020 | Low Tide (ft) | -0.4 |
| S12 | 01 Sep 2020 | Low Tide Time | 342 |
| S12 | 01 Sep 2020 | Comments | Kelp; Seagrass; 1 Jogger; 5 Persons; Water clear |
| S12 | 08 Sep 2020 | Arrive Time | 920 |
| S12 | 08 Sep 2020 | Weather | Cloudy |
| S12 | 08 Sep 2020 | Wind Speed (kts) | 3.4 |
| S12 | 08 Sep 2020 | Wind Dir | SW |
| S12 | 08 Sep 2020 | Animal Life | 2 Godwits; 2 Terns |
| S12 | 08 Sep 2020 | Floatables | None |
| S12 | 08 Sep 2020 | Water Color | Brown |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---|
| S12 | 08 Sep 2020 | Current Direction | N |
| S12 | 08 Sep 2020 | Water Temp (C) | 21.5 |
| S12 | 08 Sep 2020 | Wave Height Low (ft) | 2 |
| S12 | 08 Sep 2020 | High Tide (ft) | 4.5 |
| S12 | 08 Sep 2020 | High Tide Time | 1303 |
| S12 | 08 Sep 2020 | Low Tide (ft) | 2.2 |
| S12 | 08 Sep 2020 | Low Tide Time | 624 |
| S12 | 08 Sep 2020 | Comments | Kelp; Seagrass; 1 Person; Water turbid; Trash-1 |
| S12 | 10 Sep 2020 | Arrive Time | 915 |
| S12 | 10 Sep 2020 | Weather | Hazy |
| S12 | 10 Sep 2020 | Wind Speed (kts) | 0 |
| S12 | 10 Sep 2020 | Wind Dir | |
| S12 | 10 Sep 2020 | Animal Life | 1 Godwit |
| S12 | 10 Sep 2020 | Floatables | Foam |
| S12 | 10 Sep 2020 | Water Color | Green |
| S12 | 10 Sep 2020 | Current Direction | S |
| S12 | 10 Sep 2020 | Water Temp (C) | 22.2 |
| S12 | 10 Sep 2020 | Wave Height Low (ft) | 3 |
| S12 | 10 Sep 2020 | High Tide (ft) | 4.4 |
| S12 | 10 Sep 2020 | High Tide Time | 1526 |
| S12 | 10 Sep 2020 | Low Tide (ft) | 1.5 |
| S12 | 10 Sep 2020 | Low Tide Time | 2218 |
| S12 | 10 Sep 2020 | Comments | Resample; Kelp; Seagrass; 6 Persons; 1 Fisherman; Water clear |
| S12 | 15 Sep 2020 | Arrive Time | 755 |
| S12 | 15 Sep 2020 | Weather | Hazy |
| S12 | 15 Sep 2020 | Wind Speed (kts) | 1.1 |
| S12 | 15 Sep 2020 | Wind Dir | E |
| S12 | 15 Sep 2020 | Animal Life | 2 Dogs; 7 Godwits; 1 Seagull; 4 Terns |
| S12 | 15 Sep 2020 | Floatables | None |
| S12 | 15 Sep 2020 | Water Color | Green |
| S12 | 15 Sep 2020 | Current Direction | S |
| S12 | 15 Sep 2020 | Water Temp (C) | 18.9 |
| S12 | 15 Sep 2020 | Wave Height Low (ft) | 2 |
| S12 | 15 Sep 2020 | High Tide (ft) | 4.7 |
| S12 | 15 Sep 2020 | High Tide Time | 846 |
| S12 | 15 Sep 2020 | Low Tide (ft) | -0.6 |
| S12 | 15 Sep 2020 | Low Tide Time | 232 |
| S12 | 15 Sep 2020 | Comments | Kelp; Seagrass; 8 Persons; Water clear |
| S12 | 22 Sep 2020 | Arrive Time | 1126 |
| S12 | 22 Sep 2020 | Weather | Sunny |
| S12 | 22 Sep 2020 | Wind Speed (kts) | 5.4 |
| S12 | 22 Sep 2020 | Wind Dir | W |
| S12 | 22 Sep 2020 | Animal Life | 1 Dog; 5 Godwits; 1 Pelican |
| S12 | 22 Sep 2020 | Floatables | Foam |
| S12 | 22 Sep 2020 | Water Color | Green |
| S12 | 22 Sep 2020 | Current Direction | S |
| S12 | 22 Sep 2020 | Water Temp (C) | 21.9 |
| S12 | 22 Sep 2020 | Wave Height Low (ft) | 2 |
| S12 | 22 Sep 2020 | High Tide (ft) | 5.4 |
| S12 | 22 Sep 2020 | High Tide Time | 1316 |
| S12 | 22 Sep 2020 | Low Tide (ft) | 2.1 |
| S12 | 22 Sep 2020 | Low Tide Time | 648 |
| S12 | 22 Sep 2020 | Comments | Kelp; Seagrass; 1 Jogger; 2 Persons; 1 Fisherman; Water clear |
| S12 | 29 Sep 2020 | Arrive Time | 834 |
| S12 | 29 Sep 2020 | Weather | Partly Cloudy |

| Station | Date | Parameter | Value |
|---------|-------------|----------------------|---------------------------------------|
| S12 | 29 Sep 2020 | Wind Speed (kts) | 4.4 |
| S12 | 29 Sep 2020 | Wind Dir | N |
| S12 | 29 Sep 2020 | Animal Life | 1 Dog; 10 Godwits; 4 Seagulls |
| S12 | 29 Sep 2020 | Floatables | Foam |
| S12 | 29 Sep 2020 | Water Color | Green |
| S12 | 29 Sep 2020 | Current Direction | S |
| S12 | 29 Sep 2020 | Water Temp (C) | 20.4 |
| S12 | 29 Sep 2020 | Wave Height Low (ft) | 3 |
| S12 | 29 Sep 2020 | High Tide (ft) | 4.9 |
| S12 | 29 Sep 2020 | High Tide Time | 849 |
| S12 | 29 Sep 2020 | Low Tide (ft) | 0 |
| S12 | 29 Sep 2020 | Low Tide Time | 239 |
| S12 | 29 Sep 2020 | Comments | Kelp; Seagrass; 1 Person; Water clear |

This page intentionally left blank

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 01 Sep 2020 | 14 | 12 | 9 | 9 | 4 | 4 | 34 |
| 02 Sep 2020 | 14 | 12 | 9 | 9 | 4 | 4 | 34 |
| 03 Sep 2020 | 3* | 3* | 2* | 2* | 2* | 2* | 8* |
| 04 Sep 2020 | 3* | 3* | 2* | 2* | 2* | 2* | 8* |
| 05 Sep 2020 | 3* | 3* | 2* | 2* | 2* | 2* | 8* |
| 06 Sep 2020 | 3* | 3* | 2* | 2* | 2* | 2* | 8* |
| 07 Sep 2020 | 3* | 3* | 2* | 2* | 2* | 2* | 8* |
| 08 Sep 2020 | 15 | 13 | 11 | 12 | 8 | 6 | 33 |
| 09 Sep 2020 | 15 | 13 | 11 | 12 | 8 | 6 | 33 |
| 10 Sep 2020 | 24* | 22* | 17* | 18* | 11* | 7* | 67* |
| 11 Sep 2020 | 24* | 22* | 17* | 18* | 11* | 7* | 67* |
| 12 Sep 2020 | 24* | 22* | 17* | 18* | 11* | 7* | 67* |
| 13 Sep 2020 | 24* | 22* | 17* | 18* | 11* | 7* | 67* |
| 14 Sep 2020 | 15 | 13 | 12 | 12 | 11 | 6 | 33 |
| 15 Sep 2020 | 15 | 13 | 12 | 12 | 11 | 6 | 33 |
| 16 Sep 2020 | 17* | 22* | 18* | 18* | 14* | 7* | 44* |
| 17 Sep 2020 | 17* | 22* | 18* | 18* | 14* | 7* | 44* |
| 18 Sep 2020 | 17* | 22* | 18* | 18* | 14* | 7* | 44* |
| 19 Sep 2020 | 17* | 22* | 18* | 18* | 14* | 7* | 44* |
| 20 Sep 2020 | 17* | 22* | 18* | 18* | 14* | 7* | 44* |
| 21 Sep 2020 | 11 | 18 | 12 | 12 | 13 | 5 | 24 |
| 22 Sep 2020 | 11 | 18 | 12 | 12 | 13 | 5 | 24 |
| 23 Sep 2020 | 11 | 18 | 12 | 12 | 13 | 5 | 24 |
| 24 Sep 2020 | 11 | 18 | 12 | 12 | 13 | 5 | 24 |
| 25 Sep 2020 | 11 | 18 | 12 | 12 | 13 | 5 | 24 |
| 26 Sep 2020 | 17* | 31* | 18* | 18* | 20* | 7* | 25* |
| 27 Sep 2020 | 17* | 31* | 18* | 18* | 20* | 7* | 25* |
| 28 Sep 2020 | 16 | 24 | 15 | 12 | 15 | 7 | 20 |
| 29 Sep 2020 | 16 | 24 | 15 | 12 | 15 | 7 | 20 |
| 30 Sep 2020 | 28* | 31* | 25* | 18* | 25* | 10* | 25* |

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 01 Sep 2020 | 9 | 7 | 7 | 6 | 2 | 2 | 14 |
| 02 Sep 2020 | 9 | 7 | 7 | 6 | 2 | 2 | 14 |
| 03 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 3* |
| 04 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 3* |
| 05 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 3* |
| 06 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 3* |
| 07 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 3* |
| 08 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 12 |
| 09 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 12 |
| 10 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 18* |
| 11 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 18* |
| 12 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 18* |
| 13 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 18* |
| 14 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 12 |
| 15 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 12 |
| 16 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 17 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 18 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 19 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 20 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 21 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 22 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 23 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 24 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 25 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 26 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 27 Sep 2020 | 13* | 10* | 11* | 14* | 3* | 6* | 11* |
| 28 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 29 Sep 2020 | 9 | 7 | 8 | 9 | 3 | 5 | 8 |
| 30 Sep 2020 | 13* | 9* | 11* | 14* | 3* | 6* | 11* |

* Geometric mean calculated using n<5

Table 3.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 01 Sep 2020 | 7 | 5 | 5 | 4 | 2 | 2 | 7 |
| 02 Sep 2020 | 7 | 5 | 5 | 4 | 2 | 2 | 7 |
| 03 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 04 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 05 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 06 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 07 Sep 2020 | 2* | 2* | 2* | 2* | 2* | 2* | 2* |
| 08 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 09 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 10 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 11 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 12 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 13 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 14 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 15 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 16 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 17 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 18 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 19 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 20 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 21 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 22 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 23 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 24 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 25 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 26 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 27 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |
| 28 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 29 Sep 2020 | 8 | 6 | 6 | 7 | 3 | 5 | 7 |
| 30 Sep 2020 | 11* | 8* | 9* | 10* | 3* | 6* | 10* |

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 08 Sep 2020 | E | IC | E | E | IC | IC | E |
| 14 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 21 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 28 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 08 Sep 2020 | E | E | E | E | IC | E | E |
| 14 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 21 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 28 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 08 Sep 2020 | E | E | E | E | IC | E | E |
| 14 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 21 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 28 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

| Date | I19 | I24 | I25 | I26 | I32 | I39 | I40 |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 08 Sep 2020 | E | E | E | E | IC | IC | E |
| 14 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 21 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |
| 28 Sep 2020 | IC | IC | IC | IC | IC | IC | IC |

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

| Station | Date | Time | Depth | Total | Fecal | Entero | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|--------|-------|--------|-------|------|-------|-----|-------|-----|
| I19 | 08 Sep 2020 | 1031 | 2 | 12000 | 8600 | 2000e | 0.717 | 18.7 | 77.03 | 8.2 | 33.41 | 8.2 |
| I19 | 08 Sep 2020 | 1031 | 6 | 8600 | 2400e | 3200e | 0.279 | 18.6 | 76.54 | 8.1 | 33.42 | 8.2 |
| I19 | 08 Sep 2020 | 1031 | 11 | 11000 | 1000 | 900 | 0.091 | 18.6 | 74.74 | 8.0 | 33.42 | 8.1 |
| I19 | 14 Sep 2020 | 1019 | 2 | 2e | <2 | <2 | 1.000 | 18.9 | 79.42 | 7.7 | 33.56 | 8.2 |
| I19 | 14 Sep 2020 | 1019 | 6 | <2 | <2 | <2 | 1.000 | 17.9 | 75.93 | 7.7 | 33.89 | 8.2 |
| I19 | 14 Sep 2020 | 1019 | 11 | <2 | <2 | <2 | 1.000 | 16.8 | 69.79 | 7.8 | 33.66 | 8.1 |
| I19 | 21 Sep 2020 | 1143 | 2 | <2 | <2 | <2 | 1.000 | 18.3 | 80.55 | 7.9 | 33.48 | 8.1 |
| I19 | 21 Sep 2020 | 1143 | 6 | <2 | <2 | <2 | 1.000 | 17.0 | 80.18 | 8.1 | 33.46 | 8.1 |
| I19 | 21 Sep 2020 | 1143 | 11 | <2 | <2 | <2 | 1.000 | 14.6 | 74.39 | 7.7 | 33.42 | 8.0 |
| I19 | 28 Sep 2020 | 1050 | 2 | <2 | <2 | <2 | 1.000 | 19.8 | 73.38 | 7.7 | 33.47 | 8.1 |
| I19 | 28 Sep 2020 | 1050 | 6 | <20 | <2 | <2 | 0.100 | 17.8 | 58.81 | 7.3 | 33.46 | 8.1 |
| I19 | 28 Sep 2020 | 1050 | 11 | <20 | <2 | <2 | 0.100 | 16.5 | 67.99 | 7.5 | 33.43 | 8.1 |
| I24 | 08 Sep 2020 | 1052 | 2 | 7000 | 840 | 500 | 0.120 | 18.4 | 82.41 | 8.6 | 33.44 | 8.2 |
| I24 | 08 Sep 2020 | 1052 | 6 | 8000 | 720 | 620 | 0.090 | 18.4 | 82.38 | 8.5 | 33.44 | 8.2 |
| I24 | 08 Sep 2020 | 1052 | 11 | 6000 | 1200e | 540 | 0.200 | 18.4 | 79.72 | 8.5 | 33.44 | 8.2 |
| I24 | 14 Sep 2020 | 1042 | 2 | <2 | <2 | <2 | 1.000 | 19.5 | 80.71 | 8.4 | 33.52 | 8.2 |
| I24 | 14 Sep 2020 | 1042 | 6 | <2 | <2 | <2 | 1.000 | 17.8 | 72.49 | 7.8 | 33.51 | 8.1 |
| I24 | 14 Sep 2020 | 1042 | 11 | 2e | <2 | <2 | 1.000 | 16.8 | 79.99 | 7.3 | 33.46 | 8.1 |
| I24 | 21 Sep 2020 | 1204 | 2 | <2 | <2 | <2 | 1.000 | 18.8 | 86.44 | 8.1 | 33.49 | 8.1 |
| I24 | 21 Sep 2020 | 1204 | 6 | <2 | <2 | <2 | 1.000 | 16.5 | 82.65 | 8.3 | 33.46 | 8.1 |
| I24 | 21 Sep 2020 | 1204 | 11 | <20 | <2 | <2 | 0.100 | 14.4 | 65.99 | 6.2 | 33.45 | 7.9 |
| I24 | 28 Sep 2020 | 1115 | 2 | <2 | <2 | <2 | 1.000 | 19.9 | 81.69 | 7.8 | 33.49 | 8.2 |
| I24 | 28 Sep 2020 | 1115 | 6 | 4e | <2 | <2 | 0.500 | 17.7 | 80.84 | 7.5 | 33.46 | 8.1 |
| I24 | 28 Sep 2020 | 1115 | 11 | <20 | <2 | <2 | 0.100 | 17.0 | 46.65 | 7.4 | 33.37 | 8.1 |
| I25 | 08 Sep 2020 | 1101 | 2 | 9600 | 980 | 720 | 0.102 | 18.4 | 81.81 | 8.5 | 33.44 | 8.2 |
| I25 | 08 Sep 2020 | 1101 | 6 | 11000 | 1800e | 780 | 0.164 | 18.4 | 81.71 | 8.5 | 33.44 | 8.2 |
| I25 | 08 Sep 2020 | 1101 | 9 | 8200 | 3600e | 540 | 0.439 | 18.3 | 81.41 | 8.4 | 33.43 | 8.2 |
| I25 | 14 Sep 2020 | 1052 | 2 | <2 | <2 | <2 | 1.000 | 19.9 | 82.67 | 8.4 | 33.51 | 8.2 |
| I25 | 14 Sep 2020 | 1052 | 6 | <2 | <2 | <2 | 1.000 | 17.6 | 74.42 | 7.8 | 33.49 | 8.1 |
| I25 | 14 Sep 2020 | 1052 | 9 | 4e | <2 | <2 | 0.500 | 17.0 | 82.33 | 7.4 | 33.46 | 8.1 |
| I25 | 21 Sep 2020 | 1212 | 2 | <2 | <2 | <2 | 1.000 | 18.8 | 87.29 | 8.2 | 33.49 | 8.1 |
| I25 | 21 Sep 2020 | 1212 | 6 | <2 | <2 | <2 | 1.000 | 16.3 | 82.39 | 8.3 | 33.46 | 8.1 |
| I25 | 21 Sep 2020 | 1212 | 9 | 2e | <2 | <2 | 1.000 | 14.6 | 71.19 | 6.7 | 33.44 | 8.0 |
| I25 | 28 Sep 2020 | 1122 | 2 | <2 | <2 | <2 | 1.000 | 19.9 | 81.47 | 7.8 | 33.48 | 8.2 |
| I25 | 28 Sep 2020 | 1122 | 6 | <2 | <2 | <2 | 1.000 | 17.8 | 82.35 | 7.9 | 33.48 | 8.2 |
| I25 | 28 Sep 2020 | 1122 | 9 | <20 | <2 | <2 | 0.100 | 17.0 | 73.10 | 7.7 | 33.43 | 8.1 |
| I26 | 08 Sep 2020 | 1111 | 2 | 12000 | 4200 | 820 | 0.350 | 18.4 | 79.32 | 8.4 | 33.42 | 8.2 |
| I26 | 08 Sep 2020 | 1111 | 6 | 14000 | 4400 | 2000e | 0.314 | 18.4 | 79.64 | 8.3 | 33.42 | 8.2 |
| I26 | 08 Sep 2020 | 1111 | 9 | >16000 | 4000 | 900 | 0.250 | 18.4 | 79.49 | 8.3 | 33.42 | 8.2 |

| Station | Date | Time | Depth | Total | Fecal | Entero | F:T | Temp | XMS | DO | Sal | pH |
|---------|-------------|------|-------|-------|-------|--------|--------|------|-------|-----|-------|-----|
| I26 | 14 Sep 2020 | 1102 | 2 | <2 | <2 | <2 | 1.000 | 19.7 | 81.51 | 8.6 | 33.51 | 8.2 |
| I26 | 14 Sep 2020 | 1102 | 6 | <2 | <2 | <2 | 1.000 | 18.0 | 78.80 | 8.9 | 33.50 | 8.2 |
| I26 | 14 Sep 2020 | 1102 | 9 | <2 | <2 | <2 | 1.000 | 16.7 | 77.16 | 8.1 | 33.47 | 8.1 |
| I26 | 21 Sep 2020 | 1221 | 2 | <2 | <2 | <2 | 1.000 | 18.4 | 86.09 | 8.2 | 33.49 | 8.1 |
| I26 | 21 Sep 2020 | 1221 | 6 | <2 | <2 | <2 | 1.000 | 16.8 | 82.98 | 8.5 | 33.46 | 8.1 |
| I26 | 21 Sep 2020 | 1221 | 9 | <2 | <2 | <2 | 1.000 | 15.6 | 77.22 | 8.1 | 33.44 | 8.1 |
| I26 | 28 Sep 2020 | 1133 | 2 | <2 | <2 | <2 | 1.000 | 20.2 | 82.49 | 7.7 | 33.54 | 8.2 |
| I26 | 28 Sep 2020 | 1133 | 6 | 2e | <2 | <2 | 1.000 | 17.6 | 82.61 | 8.1 | 33.50 | 8.1 |
| I26 | 28 Sep 2020 | 1133 | 9 | 2e | <2 | <2 | 1.000 | 16.8 | 78.57 | 8.1 | 33.44 | 8.1 |
| I32 | 08 Sep 2020 | 1123 | 2 | <20 | 12e | 10e | 0.600 | 19.2 | 78.83 | 7.7 | 33.49 | 8.1 |
| I32 | 08 Sep 2020 | 1123 | 6 | <20 | 6e | 6e | 0.300 | 18.2 | 75.87 | 7.8 | 33.42 | 8.1 |
| I32 | 08 Sep 2020 | 1123 | 9 | 3600e | 6e | 12e | 0.002 | 17.9 | 77.49 | 7.9 | 33.43 | 8.1 |
| I32 | 14 Sep 2020 | 1115 | 2 | 2e | <2 | <2 | 1.000 | 19.6 | 79.70 | 8.0 | 33.57 | 8.2 |
| I32 | 14 Sep 2020 | 1115 | 6 | 2e | <2 | 2e | 1.000 | 17.4 | 71.92 | 7.8 | 33.99 | 8.1 |
| I32 | 14 Sep 2020 | 1115 | 9 | <20 | 2e | <2 | 0.100 | 16.6 | 71.80 | 7.4 | 33.54 | 8.1 |
| I32 | 21 Sep 2020 | 1234 | 2 | <20 | <2 | <2 | 0.100 | 18.9 | 78.03 | 7.8 | 33.49 | 8.1 |
| I32 | 21 Sep 2020 | 1234 | 6 | <2 | <2 | <2 | 1.000 | 16.8 | 78.46 | 8.4 | 33.45 | 8.1 |
| I32 | 21 Sep 2020 | 1234 | 9 | <2 | <2 | <2 | 1.000 | 16.4 | 75.50 | 8.1 | 33.45 | 8.1 |
| I32 | 28 Sep 2020 | 1149 | 2 | <2 | <2 | <2 | 1.000 | 20.3 | 78.04 | 7.7 | 33.54 | 8.2 |
| I32 | 28 Sep 2020 | 1149 | 6 | 4e | 2e | <2 | 0.500 | 18.4 | 72.15 | 8.0 | 33.46 | 8.2 |
| I32 | 28 Sep 2020 | 1149 | 9 | 10e | <2 | <2 | 0.200 | 17.5 | 82.25 | 8.2 | 33.44 | 8.2 |
| I39 | 08 Sep 2020 | 1010 | 2 | <20 | 460 | 360e | 23.000 | 19.0 | 85.50 | 8.2 | 33.48 | 8.2 |
| I39 | 08 Sep 2020 | 1010 | 12 | 800e | 56 | 84 | 0.070 | 17.6 | 79.30 | 8.5 | 33.46 | 8.2 |
| I39 | 08 Sep 2020 | 1010 | 18 | 16e | <2 | 4e | 0.125 | 16.7 | 81.10 | 8.6 | 33.47 | 8.2 |
| I39 | 14 Sep 2020 | 959 | 2 | <2 | <2 | <2 | 1.000 | 19.9 | 85.91 | 8.5 | 33.52 | 8.2 |
| I39 | 14 Sep 2020 | 959 | 12 | 2e | <2 | <2 | 1.000 | 15.4 | 82.31 | 8.0 | 33.45 | 8.1 |
| I39 | 14 Sep 2020 | 959 | 18 | <2 | <2 | <2 | 1.000 | 14.7 | 85.02 | 7.2 | 33.47 | 8.0 |
| I39 | 21 Sep 2020 | 1121 | 2 | <2 | <2 | <2 | 1.000 | 17.2 | 84.81 | 8.5 | 33.48 | 8.1 |
| I39 | 21 Sep 2020 | 1121 | 12 | 2e | <2 | <2 | 1.000 | 13.8 | 82.70 | 6.9 | 33.45 | 7.9 |
| I39 | 21 Sep 2020 | 1121 | 18 | 2e | 2e | <2 | 1.000 | 13.6 | 85.68 | 6.7 | 33.47 | 7.9 |
| I39 | 28 Sep 2020 | 1029 | 2 | <2 | <2 | <2 | 1.000 | 19.7 | 83.66 | 8.0 | 33.49 | 8.2 |
| I39 | 28 Sep 2020 | 1029 | 12 | 14e | <2 | 2e | 0.143 | 17.4 | 85.04 | 8.6 | 33.45 | 8.2 |
| I39 | 28 Sep 2020 | 1029 | 18 | 14e | <2 | 2e | 0.143 | 15.4 | 80.49 | 8.0 | 33.46 | 8.1 |
| I40 | 08 Sep 2020 | 1042 | 2 | 13000 | 2400e | 1400e | 0.185 | 18.6 | 79.37 | 8.5 | 33.42 | 8.2 |
| I40 | 08 Sep 2020 | 1042 | 6 | 9000 | 2000e | 1100 | 0.222 | 18.6 | 79.49 | 8.4 | 33.43 | 8.2 |
| I40 | 08 Sep 2020 | 1042 | 9 | 12000 | 1000 | 960 | 0.083 | 18.6 | 79.04 | 8.3 | 33.43 | 8.2 |
| I40 | 14 Sep 2020 | 1032 | 2 | 2e | <2 | <2 | 1.000 | 19.1 | 73.52 | 8.0 | 33.49 | 8.1 |
| I40 | 14 Sep 2020 | 1032 | 6 | 2e | <2 | <2 | 1.000 | 18.1 | 69.37 | 8.5 | 33.48 | 8.2 |
| I40 | 14 Sep 2020 | 1032 | 9 | 2e | <2 | <2 | 1.000 | 17.4 | 71.57 | 8.3 | 33.48 | 8.1 |
| I40 | 21 Sep 2020 | 1156 | 2 | <2 | <2 | <2 | 1.000 | 18.5 | 76.01 | 7.8 | 33.49 | 8.1 |
| I40 | 21 Sep 2020 | 1156 | 6 | <2 | <2 | <2 | 1.000 | 16.6 | 79.64 | 8.2 | 33.45 | 8.1 |
| I40 | 21 Sep 2020 | 1156 | 9 | <2 | <2 | <2 | 1.000 | 14.6 | 67.76 | 6.7 | 33.45 | 8.0 |
| I40 | 28 Sep 2020 | 1105 | 2 | <2 | <2 | <2 | 1.000 | 19.9 | 74.90 | 7.3 | 33.50 | 8.1 |
| I40 | 28 Sep 2020 | 1105 | 6 | 2e | <2 | <2 | 1.000 | 17.6 | 73.12 | 7.5 | 33.47 | 8.1 |
| I40 | 28 Sep 2020 | 1105 | 9 | <20 | <2 | <2 | 0.100 | 16.4 | 54.31 | 7.1 | 33.44 | 8.1 |

Table 3.9

Summary of visual observations made during the month for each SBOO kelp station by sample date.

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I19 | 08 Sep 2020 | Depth (m) | 11 |
| I19 | 08 Sep 2020 | Arrive Time | 1031 |
| I19 | 08 Sep 2020 | Depart Time | 1036 |
| I19 | 08 Sep 2020 | Air Temp (C) | 20 |
| I19 | 08 Sep 2020 | Weather | Overcast |
| I19 | 08 Sep 2020 | Visibility (mi) | 5 |
| I19 | 08 Sep 2020 | Wind Speed (kts) | 7 |
| I19 | 08 Sep 2020 | Wind Dir | SE |
| I19 | 08 Sep 2020 | Water Color | Green |
| I19 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I19 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I19 | 08 Sep 2020 | Sea State | Wind ripples |
| I19 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I19 | 08 Sep 2020 | High Tide Time | 1303 |
| I19 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I19 | 08 Sep 2020 | Low Tide Time | 624 |
| I19 | 08 Sep 2020 | Comments | none |
| I19 | 14 Sep 2020 | Depth (m) | 10 |
| I19 | 14 Sep 2020 | Arrive Time | 1019 |
| I19 | 14 Sep 2020 | Depart Time | 1024 |
| I19 | 14 Sep 2020 | Air Temp (C) | 20 |
| I19 | 14 Sep 2020 | Weather | Partly Cloudy |
| I19 | 14 Sep 2020 | Visibility (mi) | 5 |
| I19 | 14 Sep 2020 | Wind Speed (kts) | 4 |
| I19 | 14 Sep 2020 | Wind Dir | NW |
| I19 | 14 Sep 2020 | Water Color | Green |
| I19 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I19 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I19 | 14 Sep 2020 | Sea State | Calm |
| I19 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I19 | 14 Sep 2020 | High Tide Time | 819 |
| I19 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I19 | 14 Sep 2020 | Low Tide Time | 1337 |
| I19 | 14 Sep 2020 | Comments | none |
| I19 | 21 Sep 2020 | Depth (m) | 11 |
| I19 | 21 Sep 2020 | Arrive Time | 1143 |
| I19 | 21 Sep 2020 | Depart Time | 1145 |
| I19 | 21 Sep 2020 | Air Temp (C) | 20 |
| I19 | 21 Sep 2020 | Weather | Haze |
| I19 | 21 Sep 2020 | Visibility (mi) | 10 |
| I19 | 21 Sep 2020 | Wind Speed (kts) | 4 |
| I19 | 21 Sep 2020 | Wind Dir | NW |
| I19 | 21 Sep 2020 | Water Color | Greenish-Blue |
| I19 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I19 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I19 | 21 Sep 2020 | Sea State | Light chop |
| I19 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I19 | 21 Sep 2020 | High Tide Time | 1221 |
| I19 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I19 | 21 Sep 2020 | Low Tide Time | 604 |
| I19 | 21 Sep 2020 | Comments | none |
| I19 | 28 Sep 2020 | Depth (m) | 11 |
| I19 | 28 Sep 2020 | Arrive Time | 1050 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I19 | 28 Sep 2020 | Depart Time | 1055 |
| I19 | 28 Sep 2020 | Air Temp (C) | 20 |
| I19 | 28 Sep 2020 | Weather | Overcast |
| I19 | 28 Sep 2020 | Visibility (mi) | 12 |
| I19 | 28 Sep 2020 | Wind Speed (kts) | 10 |
| I19 | 28 Sep 2020 | Wind Dir | NW |
| I19 | 28 Sep 2020 | Water Color | Green |
| I19 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I19 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I19 | 28 Sep 2020 | Sea State | Calm |
| I19 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I19 | 28 Sep 2020 | High Tide Time | 827 |
| I19 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I19 | 28 Sep 2020 | Low Tide Time | 1408 |
| I19 | 28 Sep 2020 | Comments | none |
| I24 | 08 Sep 2020 | Depth (m) | 12 |
| I24 | 08 Sep 2020 | Arrive Time | 1052 |
| I24 | 08 Sep 2020 | Depart Time | 1057 |
| I24 | 08 Sep 2020 | Air Temp (C) | 21 |
| I24 | 08 Sep 2020 | Weather | Overcast |
| I24 | 08 Sep 2020 | Visibility (mi) | 5 |
| I24 | 08 Sep 2020 | Wind Speed (kts) | 6 |
| I24 | 08 Sep 2020 | Wind Dir | SE |
| I24 | 08 Sep 2020 | Water Color | Green |
| I24 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I24 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I24 | 08 Sep 2020 | Sea State | Wind ripples |
| I24 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I24 | 08 Sep 2020 | High Tide Time | 1303 |
| I24 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I24 | 08 Sep 2020 | Low Tide Time | 624 |
| I24 | 08 Sep 2020 | Comments | none |
| I24 | 14 Sep 2020 | Depth (m) | 10 |
| I24 | 14 Sep 2020 | Arrive Time | 1042 |
| I24 | 14 Sep 2020 | Depart Time | 1048 |
| I24 | 14 Sep 2020 | Air Temp (C) | 20 |
| I24 | 14 Sep 2020 | Weather | Partly Cloudy |
| I24 | 14 Sep 2020 | Visibility (mi) | 5 |
| I24 | 14 Sep 2020 | Wind Speed (kts) | 8 |
| I24 | 14 Sep 2020 | Wind Dir | W |
| I24 | 14 Sep 2020 | Water Color | Green |
| I24 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I24 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I24 | 14 Sep 2020 | Sea State | Calm |
| I24 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I24 | 14 Sep 2020 | High Tide Time | 819 |
| I24 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I24 | 14 Sep 2020 | Low Tide Time | 1337 |
| I24 | 14 Sep 2020 | Comments | none |
| I24 | 21 Sep 2020 | Depth (m) | 11 |
| I24 | 21 Sep 2020 | Arrive Time | 1204 |
| I24 | 21 Sep 2020 | Depart Time | 1206 |
| I24 | 21 Sep 2020 | Air Temp (C) | 20 |
| I24 | 21 Sep 2020 | Weather | Haze |
| I24 | 21 Sep 2020 | Visibility (mi) | 12 |
| I24 | 21 Sep 2020 | Wind Speed (kts) | 6 |
| I24 | 21 Sep 2020 | Wind Dir | W |
| I24 | 21 Sep 2020 | Water Color | Green |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I24 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I24 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I24 | 21 Sep 2020 | Sea State | Light chop |
| I24 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I24 | 21 Sep 2020 | High Tide Time | 1221 |
| I24 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I24 | 21 Sep 2020 | Low Tide Time | 604 |
| I24 | 21 Sep 2020 | Comments | none |
| I24 | 28 Sep 2020 | Depth (m) | 8 |
| I24 | 28 Sep 2020 | Arrive Time | 1115 |
| I24 | 28 Sep 2020 | Depart Time | 1118 |
| I24 | 28 Sep 2020 | Air Temp (C) | 20 |
| I24 | 28 Sep 2020 | Weather | Overcast |
| I24 | 28 Sep 2020 | Visibility (mi) | 12 |
| I24 | 28 Sep 2020 | Wind Speed (kts) | 7 |
| I24 | 28 Sep 2020 | Wind Dir | NW |
| I24 | 28 Sep 2020 | Water Color | Green |
| I24 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I24 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I24 | 28 Sep 2020 | Sea State | Calm |
| I24 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I24 | 28 Sep 2020 | High Tide Time | 827 |
| I24 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I24 | 28 Sep 2020 | Low Tide Time | 1408 |
| I24 | 28 Sep 2020 | Comments | none |
| I25 | 08 Sep 2020 | Depth (m) | 10 |
| I25 | 08 Sep 2020 | Arrive Time | 1101 |
| I25 | 08 Sep 2020 | Depart Time | 1103 |
| I25 | 08 Sep 2020 | Air Temp (C) | 21 |
| I25 | 08 Sep 2020 | Weather | Overcast |
| I25 | 08 Sep 2020 | Visibility (mi) | 5 |
| I25 | 08 Sep 2020 | Wind Speed (kts) | 7 |
| I25 | 08 Sep 2020 | Wind Dir | SE |
| I25 | 08 Sep 2020 | Water Color | Green |
| I25 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I25 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I25 | 08 Sep 2020 | Sea State | Wind ripples |
| I25 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I25 | 08 Sep 2020 | High Tide Time | 1303 |
| I25 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I25 | 08 Sep 2020 | Low Tide Time | 624 |
| I25 | 08 Sep 2020 | Comments | none |
| I25 | 14 Sep 2020 | Depth (m) | 10 |
| I25 | 14 Sep 2020 | Arrive Time | 1052 |
| I25 | 14 Sep 2020 | Depart Time | 1056 |
| I25 | 14 Sep 2020 | Air Temp (C) | 21 |
| I25 | 14 Sep 2020 | Weather | Partly Cloudy |
| I25 | 14 Sep 2020 | Visibility (mi) | 5 |
| I25 | 14 Sep 2020 | Wind Speed (kts) | 6 |
| I25 | 14 Sep 2020 | Wind Dir | SW |
| I25 | 14 Sep 2020 | Water Color | Green |
| I25 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I25 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I25 | 14 Sep 2020 | Sea State | Calm |
| I25 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I25 | 14 Sep 2020 | High Tide Time | 819 |
| I25 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I25 | 14 Sep 2020 | Low Tide Time | 1337 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I25 | 14 Sep 2020 | Comments | none |
| I25 | 21 Sep 2020 | Depth (m) | 9 |
| I25 | 21 Sep 2020 | Arrive Time | 1212 |
| I25 | 21 Sep 2020 | Depart Time | 1214 |
| I25 | 21 Sep 2020 | Air Temp (C) | 20 |
| I25 | 21 Sep 2020 | Weather | Haze |
| I25 | 21 Sep 2020 | Visibility (mi) | 12 |
| I25 | 21 Sep 2020 | Wind Speed (kts) | 5 |
| I25 | 21 Sep 2020 | Wind Dir | NW |
| I25 | 21 Sep 2020 | Water Color | Greenish-Blue |
| I25 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I25 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I25 | 21 Sep 2020 | Sea State | Light chop |
| I25 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I25 | 21 Sep 2020 | High Tide Time | 1221 |
| I25 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I25 | 21 Sep 2020 | Low Tide Time | 604 |
| I25 | 21 Sep 2020 | Comments | none |
| I25 | 28 Sep 2020 | Depth (m) | 10 |
| I25 | 28 Sep 2020 | Arrive Time | 1122 |
| I25 | 28 Sep 2020 | Depart Time | 1125 |
| I25 | 28 Sep 2020 | Air Temp (C) | 20 |
| I25 | 28 Sep 2020 | Weather | Overcast |
| I25 | 28 Sep 2020 | Visibility (mi) | 12 |
| I25 | 28 Sep 2020 | Wind Speed (kts) | 11 |
| I25 | 28 Sep 2020 | Wind Dir | NW |
| I25 | 28 Sep 2020 | Water Color | Green |
| I25 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I25 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I25 | 28 Sep 2020 | Sea State | Calm |
| I25 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I25 | 28 Sep 2020 | High Tide Time | 827 |
| I25 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I25 | 28 Sep 2020 | Low Tide Time | 1408 |
| I25 | 28 Sep 2020 | Comments | none |
| I26 | 08 Sep 2020 | Depth (m) | 10 |
| I26 | 08 Sep 2020 | Arrive Time | 1111 |
| I26 | 08 Sep 2020 | Depart Time | 1115 |
| I26 | 08 Sep 2020 | Air Temp (C) | 21 |
| I26 | 08 Sep 2020 | Weather | Overcast |
| I26 | 08 Sep 2020 | Visibility (mi) | 5 |
| I26 | 08 Sep 2020 | Wind Speed (kts) | 8 |
| I26 | 08 Sep 2020 | Wind Dir | SE |
| I26 | 08 Sep 2020 | Water Color | Green |
| I26 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I26 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I26 | 08 Sep 2020 | Sea State | Wind ripples |
| I26 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I26 | 08 Sep 2020 | High Tide Time | 1303 |
| I26 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I26 | 08 Sep 2020 | Low Tide Time | 624 |
| I26 | 08 Sep 2020 | Comments | none |
| I26 | 14 Sep 2020 | Depth (m) | 10 |
| I26 | 14 Sep 2020 | Arrive Time | 1102 |
| I26 | 14 Sep 2020 | Depart Time | 1106 |
| I26 | 14 Sep 2020 | Air Temp (C) | 20 |
| I26 | 14 Sep 2020 | Weather | Partly Cloudy |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I26 | 14 Sep 2020 | Visibility (mi) | 5 |
| I26 | 14 Sep 2020 | Wind Speed (kts) | 11 |
| I26 | 14 Sep 2020 | Wind Dir | W |
| I26 | 14 Sep 2020 | Water Color | Green |
| I26 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I26 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I26 | 14 Sep 2020 | Sea State | Calm |
| I26 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I26 | 14 Sep 2020 | High Tide Time | 819 |
| I26 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I26 | 14 Sep 2020 | Low Tide Time | 1337 |
| I26 | 14 Sep 2020 | Comments | none |
| I26 | 21 Sep 2020 | Depth (m) | 9 |
| I26 | 21 Sep 2020 | Arrive Time | 1221 |
| I26 | 21 Sep 2020 | Depart Time | 1223 |
| I26 | 21 Sep 2020 | Air Temp (C) | 20 |
| I26 | 21 Sep 2020 | Weather | Haze |
| I26 | 21 Sep 2020 | Visibility (mi) | 12 |
| I26 | 21 Sep 2020 | Wind Speed (kts) | 4 |
| I26 | 21 Sep 2020 | Wind Dir | W |
| I26 | 21 Sep 2020 | Water Color | Greenish-Blue |
| I26 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I26 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I26 | 21 Sep 2020 | Sea State | Light chop |
| I26 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I26 | 21 Sep 2020 | High Tide Time | 1221 |
| I26 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I26 | 21 Sep 2020 | Low Tide Time | 604 |
| I26 | 21 Sep 2020 | Comments | none |
| I26 | 28 Sep 2020 | Depth (m) | 9 |
| I26 | 28 Sep 2020 | Arrive Time | 1133 |
| I26 | 28 Sep 2020 | Depart Time | 1140 |
| I26 | 28 Sep 2020 | Air Temp (C) | 20 |
| I26 | 28 Sep 2020 | Weather | Overcast |
| I26 | 28 Sep 2020 | Visibility (mi) | 12 |
| I26 | 28 Sep 2020 | Wind Speed (kts) | 11 |
| I26 | 28 Sep 2020 | Wind Dir | NW |
| I26 | 28 Sep 2020 | Water Color | Green |
| I26 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I26 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I26 | 28 Sep 2020 | Sea State | Calm |
| I26 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I26 | 28 Sep 2020 | High Tide Time | 827 |
| I26 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I26 | 28 Sep 2020 | Low Tide Time | 1408 |
| I26 | 28 Sep 2020 | Comments | none |
| I32 | 08 Sep 2020 | Depth (m) | 11 |
| I32 | 08 Sep 2020 | Arrive Time | 1123 |
| I32 | 08 Sep 2020 | Depart Time | 1128 |
| I32 | 08 Sep 2020 | Air Temp (C) | 21 |
| I32 | 08 Sep 2020 | Weather | Overcast |
| I32 | 08 Sep 2020 | Visibility (mi) | 5 |
| I32 | 08 Sep 2020 | Wind Speed (kts) | 9 |
| I32 | 08 Sep 2020 | Wind Dir | SE |
| I32 | 08 Sep 2020 | Water Color | Green |
| I32 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I32 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I32 | 08 Sep 2020 | Sea State | Wind ripples |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I32 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I32 | 08 Sep 2020 | High Tide Time | 1303 |
| I32 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I32 | 08 Sep 2020 | Low Tide Time | 624 |
| I32 | 08 Sep 2020 | Comments | none |
| I32 | 14 Sep 2020 | Depth (m) | 10 |
| I32 | 14 Sep 2020 | Arrive Time | 1115 |
| I32 | 14 Sep 2020 | Depart Time | 1121 |
| I32 | 14 Sep 2020 | Air Temp (C) | 20 |
| I32 | 14 Sep 2020 | Weather | Partly Cloudy |
| I32 | 14 Sep 2020 | Visibility (mi) | 5 |
| I32 | 14 Sep 2020 | Wind Speed (kts) | 8 |
| I32 | 14 Sep 2020 | Wind Dir | SW |
| I32 | 14 Sep 2020 | Water Color | Green |
| I32 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I32 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I32 | 14 Sep 2020 | Sea State | Calm |
| I32 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I32 | 14 Sep 2020 | High Tide Time | 819 |
| I32 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I32 | 14 Sep 2020 | Low Tide Time | 1337 |
| I32 | 14 Sep 2020 | Comments | none |
| I32 | 21 Sep 2020 | Depth (m) | 10 |
| I32 | 21 Sep 2020 | Arrive Time | 1234 |
| I32 | 21 Sep 2020 | Depart Time | 1236 |
| I32 | 21 Sep 2020 | Air Temp (C) | 20 |
| I32 | 21 Sep 2020 | Weather | Haze |
| I32 | 21 Sep 2020 | Visibility (mi) | 12 |
| I32 | 21 Sep 2020 | Wind Speed (kts) | 6 |
| I32 | 21 Sep 2020 | Wind Dir | W |
| I32 | 21 Sep 2020 | Water Color | Greenish-Blue |
| I32 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I32 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I32 | 21 Sep 2020 | Sea State | Light chop |
| I32 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I32 | 21 Sep 2020 | High Tide Time | 1221 |
| I32 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I32 | 21 Sep 2020 | Low Tide Time | 604 |
| I32 | 21 Sep 2020 | Comments | none |
| I32 | 28 Sep 2020 | Depth (m) | 9 |
| I32 | 28 Sep 2020 | Arrive Time | 1149 |
| I32 | 28 Sep 2020 | Depart Time | 1153 |
| I32 | 28 Sep 2020 | Air Temp (C) | 20 |
| I32 | 28 Sep 2020 | Weather | Overcast |
| I32 | 28 Sep 2020 | Visibility (mi) | 12 |
| I32 | 28 Sep 2020 | Wind Speed (kts) | 12 |
| I32 | 28 Sep 2020 | Wind Dir | W |
| I32 | 28 Sep 2020 | Water Color | Green |
| I32 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I32 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I32 | 28 Sep 2020 | Sea State | Calm |
| I32 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I32 | 28 Sep 2020 | High Tide Time | 827 |
| I32 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I32 | 28 Sep 2020 | Low Tide Time | 1408 |
| I32 | 28 Sep 2020 | Comments | none |
| I39 | 08 Sep 2020 | Depth (m) | 20 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---------------|
| I39 | 08 Sep 2020 | Arrive Time | 1010 |
| I39 | 08 Sep 2020 | Depart Time | 1016 |
| I39 | 08 Sep 2020 | Air Temp (C) | 20 |
| I39 | 08 Sep 2020 | Weather | Overcast |
| I39 | 08 Sep 2020 | Visibility (mi) | 5 |
| I39 | 08 Sep 2020 | Wind Speed (kts) | 2 |
| I39 | 08 Sep 2020 | Wind Dir | S |
| I39 | 08 Sep 2020 | Water Color | Green |
| I39 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I39 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I39 | 08 Sep 2020 | Sea State | Wind ripples |
| I39 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I39 | 08 Sep 2020 | High Tide Time | 1303 |
| I39 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I39 | 08 Sep 2020 | Low Tide Time | 624 |
| I39 | 08 Sep 2020 | Comments | none |
| I39 | 14 Sep 2020 | Depth (m) | 18 |
| I39 | 14 Sep 2020 | Arrive Time | 959 |
| I39 | 14 Sep 2020 | Depart Time | 1003 |
| I39 | 14 Sep 2020 | Air Temp (C) | 20 |
| I39 | 14 Sep 2020 | Weather | Partly Cloudy |
| I39 | 14 Sep 2020 | Visibility (mi) | 5 |
| I39 | 14 Sep 2020 | Wind Speed (kts) | 0 |
| I39 | 14 Sep 2020 | Wind Dir | |
| I39 | 14 Sep 2020 | Water Color | Green |
| I39 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I39 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I39 | 14 Sep 2020 | Sea State | Calm |
| I39 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I39 | 14 Sep 2020 | High Tide Time | 819 |
| I39 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I39 | 14 Sep 2020 | Low Tide Time | 1337 |
| I39 | 14 Sep 2020 | Comments | none |
| I39 | 21 Sep 2020 | Depth (m) | 19 |
| I39 | 21 Sep 2020 | Arrive Time | 1121 |
| I39 | 21 Sep 2020 | Depart Time | 1123 |
| I39 | 21 Sep 2020 | Air Temp (C) | 19 |
| I39 | 21 Sep 2020 | Weather | Haze |
| I39 | 21 Sep 2020 | Visibility (mi) | 10 |
| I39 | 21 Sep 2020 | Wind Speed (kts) | 4 |
| I39 | 21 Sep 2020 | Wind Dir | W |
| I39 | 21 Sep 2020 | Water Color | Greenish-Blue |
| I39 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I39 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I39 | 21 Sep 2020 | Sea State | Light chop |
| I39 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I39 | 21 Sep 2020 | High Tide Time | 1221 |
| I39 | 21 Sep 2020 | Low Tide (ft) | 1.43 |
| I39 | 21 Sep 2020 | Low Tide Time | 604 |
| I39 | 21 Sep 2020 | Comments | none |
| I39 | 28 Sep 2020 | Depth (m) | 19 |
| I39 | 28 Sep 2020 | Arrive Time | 1029 |
| I39 | 28 Sep 2020 | Depart Time | 1033 |
| I39 | 28 Sep 2020 | Air Temp (C) | 20 |
| I39 | 28 Sep 2020 | Weather | Overcast |
| I39 | 28 Sep 2020 | Visibility (mi) | 9 |
| I39 | 28 Sep 2020 | Wind Speed (kts) | 10 |
| I39 | 28 Sep 2020 | Wind Dir | NW |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|---|
| I39 | 28 Sep 2020 | Water Color | Green |
| I39 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I39 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I39 | 28 Sep 2020 | Sea State | Calm |
| I39 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I39 | 28 Sep 2020 | High Tide Time | 827 |
| I39 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I39 | 28 Sep 2020 | Low Tide Time | 1408 |
| I39 | 28 Sep 2020 | Comments | none |
| I40 | 08 Sep 2020 | Depth (m) | 11 |
| I40 | 08 Sep 2020 | Arrive Time | 1042 |
| I40 | 08 Sep 2020 | Depart Time | 1047 |
| I40 | 08 Sep 2020 | Air Temp (C) | 21 |
| I40 | 08 Sep 2020 | Weather | Overcast |
| I40 | 08 Sep 2020 | Visibility (mi) | 5 |
| I40 | 08 Sep 2020 | Wind Speed (kts) | 6 |
| I40 | 08 Sep 2020 | Wind Dir | SE |
| I40 | 08 Sep 2020 | Water Color | Green |
| I40 | 08 Sep 2020 | Wave Ht Low (ft) | 4 |
| I40 | 08 Sep 2020 | Wave Period (sec) | 16 |
| I40 | 08 Sep 2020 | Sea State | Wind ripples |
| I40 | 08 Sep 2020 | High Tide (ft) | 4.48 |
| I40 | 08 Sep 2020 | High Tide Time | 1303 |
| I40 | 08 Sep 2020 | Low Tide (ft) | 2.21 |
| I40 | 08 Sep 2020 | Low Tide Time | 624 |
| I40 | 08 Sep 2020 | Comments | none |
| I40 | 14 Sep 2020 | Depth (m) | 10 |
| I40 | 14 Sep 2020 | Arrive Time | 1032 |
| I40 | 14 Sep 2020 | Depart Time | 1036 |
| I40 | 14 Sep 2020 | Air Temp (C) | 20 |
| I40 | 14 Sep 2020 | Weather | Partly Cloudy |
| I40 | 14 Sep 2020 | Visibility (mi) | 5 |
| I40 | 14 Sep 2020 | Wind Speed (kts) | 1 |
| I40 | 14 Sep 2020 | Wind Dir | NW |
| I40 | 14 Sep 2020 | Water Color | Green |
| I40 | 14 Sep 2020 | Wave Ht Low (ft) | 2 |
| I40 | 14 Sep 2020 | Wave Period (sec) | 9 |
| I40 | 14 Sep 2020 | Sea State | Calm |
| I40 | 14 Sep 2020 | High Tide (ft) | 4.33 |
| I40 | 14 Sep 2020 | High Tide Time | 819 |
| I40 | 14 Sep 2020 | Low Tide (ft) | 1.87 |
| I40 | 14 Sep 2020 | Low Tide Time | 1337 |
| I40 | 14 Sep 2020 | Comments | green algae floating on surface; Seagrass; (Ulva intestinalis?) |
| I40 | 21 Sep 2020 | Depth (m) | 10 |
| I40 | 21 Sep 2020 | Arrive Time | 1156 |
| I40 | 21 Sep 2020 | Depart Time | 1158 |
| I40 | 21 Sep 2020 | Air Temp (C) | 20 |
| I40 | 21 Sep 2020 | Weather | Haze |
| I40 | 21 Sep 2020 | Visibility (mi) | 11 |
| I40 | 21 Sep 2020 | Wind Speed (kts) | 6 |
| I40 | 21 Sep 2020 | Wind Dir | W |
| I40 | 21 Sep 2020 | Water Color | Greenish-Brown |
| I40 | 21 Sep 2020 | Wave Ht Low (ft) | 2 |
| I40 | 21 Sep 2020 | Wave Period (sec) | 11 |
| I40 | 21 Sep 2020 | Sea State | Light chop |
| I40 | 21 Sep 2020 | High Tide (ft) | 5.69 |
| I40 | 21 Sep 2020 | High Tide Time | 1221 |
| I40 | 21 Sep 2020 | Low Tide (ft) | 1.43 |

| Station | Date | Parameter | Value |
|---------|-------------|-------------------|----------|
| I40 | 21 Sep 2020 | Low Tide Time | 604 |
| I40 | 21 Sep 2020 | Comments | none |
| I40 | 28 Sep 2020 | Depth (m) | 9 |
| I40 | 28 Sep 2020 | Arrive Time | 1105 |
| I40 | 28 Sep 2020 | Depart Time | 1109 |
| I40 | 28 Sep 2020 | Air Temp (C) | 20 |
| I40 | 28 Sep 2020 | Weather | Overcast |
| I40 | 28 Sep 2020 | Visibility (mi) | 12 |
| I40 | 28 Sep 2020 | Wind Speed (kts) | 9 |
| I40 | 28 Sep 2020 | Wind Dir | W |
| I40 | 28 Sep 2020 | Water Color | Green |
| I40 | 28 Sep 2020 | Wave Ht Low (ft) | 3 |
| I40 | 28 Sep 2020 | Wave Period (sec) | 9 |
| I40 | 28 Sep 2020 | Sea State | Calm |
| I40 | 28 Sep 2020 | High Tide (ft) | 4.72 |
| I40 | 28 Sep 2020 | High Tide Time | 827 |
| I40 | 28 Sep 2020 | Low Tide (ft) | 1.57 |
| I40 | 28 Sep 2020 | Low Tide Time | 1408 |
| I40 | 28 Sep 2020 | Comments | none |

Table 3.10

Summary of CTD profile data from the SBOO kelp stations for each sample date.

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I19 | 08 Sep 2020 | 1 | 18.69 | 76.86 | 8.2 | 33.41 | 8.2 | 23.9 | 2.30 |
| I19 | 08 Sep 2020 | 2 | 18.67 | 77.03 | 8.2 | 33.41 | 8.2 | 23.9 | 2.46 |
| I19 | 08 Sep 2020 | 3 | 18.64 | 76.97 | 8.2 | 33.42 | 8.2 | 23.9 | 2.52 |
| I19 | 08 Sep 2020 | 4 | 18.63 | 76.50 | 8.1 | 33.42 | 8.2 | 23.9 | 2.52 |
| I19 | 08 Sep 2020 | 5 | 18.63 | 76.30 | 8.1 | 33.42 | 8.2 | 23.9 | 2.52 |
| I19 | 08 Sep 2020 | 6 | 18.63 | 76.54 | 8.1 | 33.42 | 8.2 | 23.9 | 2.54 |
| I19 | 08 Sep 2020 | 7 | 18.62 | 76.21 | 8.1 | 33.42 | 8.2 | 23.9 | 2.53 |
| I19 | 08 Sep 2020 | 8 | 18.60 | 75.93 | 8.1 | 33.42 | 8.1 | 23.9 | 2.48 |
| I19 | 08 Sep 2020 | 9 | 18.59 | 75.61 | 8.1 | 33.42 | 8.1 | 23.9 | 2.46 |
| I19 | 08 Sep 2020 | 10 | 18.57 | 74.74 | 8.0 | 33.42 | 8.1 | 23.9 | 2.35 |
| I19 | 14 Sep 2020 | 1 | 19.09 | 78.97 | 7.4 | 33.35 | 8.2 | 23.7 | 0.26 |
| I19 | 14 Sep 2020 | 2 | 18.95 | 79.42 | 7.7 | 33.56 | 8.2 | 23.9 | 0.27 |
| I19 | 14 Sep 2020 | 3 | 18.71 | 78.24 | 7.6 | 33.67 | 8.2 | 24.1 | 0.27 |
| I19 | 14 Sep 2020 | 4 | 18.49 | 76.68 | 7.8 | 33.66 | 8.2 | 24.1 | 0.33 |
| I19 | 14 Sep 2020 | 5 | 18.30 | 76.01 | 7.7 | 33.81 | 8.2 | 24.3 | 0.32 |
| I19 | 14 Sep 2020 | 6 | 17.91 | 75.93 | 7.7 | 33.89 | 8.2 | 24.4 | 0.34 |
| I19 | 14 Sep 2020 | 7 | 17.62 | 75.80 | 7.7 | 33.88 | 8.1 | 24.5 | 0.36 |
| I19 | 14 Sep 2020 | 8 | 17.26 | 74.65 | 8.0 | 33.86 | 8.1 | 24.6 | 0.36 |
| I19 | 14 Sep 2020 | 9 | 16.94 | 70.83 | 8.2 | 33.74 | 8.1 | 24.6 | 0.40 |
| I19 | 14 Sep 2020 | 10 | 16.75 | 69.79 | 7.8 | 33.66 | 8.1 | 24.5 | 0.41 |
| I19 | 21 Sep 2020 | 1 | 18.43 | 81.45 | 8.1 | 33.47 | 8.1 | 24.0 | 0.87 |
| I19 | 21 Sep 2020 | 2 | 18.34 | 80.55 | 7.9 | 33.48 | 8.1 | 24.0 | 0.88 |
| I19 | 21 Sep 2020 | 3 | 17.52 | 80.59 | 8.2 | 33.48 | 8.1 | 24.2 | 1.15 |
| I19 | 21 Sep 2020 | 4 | 17.34 | 80.73 | 8.3 | 33.46 | 8.1 | 24.3 | 1.46 |
| I19 | 21 Sep 2020 | 5 | 17.26 | 80.89 | 8.3 | 33.45 | 8.1 | 24.3 | 1.72 |
| I19 | 21 Sep 2020 | 6 | 17.02 | 80.18 | 8.1 | 33.46 | 8.1 | 24.3 | 2.10 |
| I19 | 21 Sep 2020 | 7 | 16.23 | 79.19 | 8.0 | 33.48 | 8.1 | 24.5 | 2.57 |
| I19 | 21 Sep 2020 | 8 | 14.78 | 77.93 | 8.0 | 33.46 | 8.1 | 24.8 | 3.45 |
| I19 | 21 Sep 2020 | 9 | 14.59 | 75.93 | 7.8 | 33.43 | 8.0 | 24.8 | 4.31 |
| I19 | 21 Sep 2020 | 10 | 14.59 | 74.39 | 7.7 | 33.42 | 8.0 | 24.8 | 4.83 |
| I19 | 28 Sep 2020 | 1 | 19.81 | 73.83 | 7.7 | 33.47 | 8.1 | 23.6 | 0.77 |
| I19 | 28 Sep 2020 | 2 | 19.75 | 73.38 | 7.7 | 33.47 | 8.1 | 23.7 | 0.85 |
| I19 | 28 Sep 2020 | 3 | 19.58 | 71.85 | 7.5 | 33.47 | 8.1 | 23.7 | 1.16 |
| I19 | 28 Sep 2020 | 4 | 18.69 | 63.59 | 7.4 | 33.49 | 8.1 | 23.9 | 1.95 |
| I19 | 28 Sep 2020 | 5 | 18.22 | 57.61 | 7.4 | 33.46 | 8.1 | 24.0 | 3.49 |
| I19 | 28 Sep 2020 | 6 | 17.77 | 58.81 | 7.3 | 33.46 | 8.1 | 24.1 | 3.40 |
| I19 | 28 Sep 2020 | 7 | 17.19 | 57.16 | 7.3 | 33.46 | 8.1 | 24.3 | 2.69 |
| I19 | 28 Sep 2020 | 8 | 16.91 | 57.10 | 7.4 | 33.44 | 8.1 | 24.3 | 2.30 |
| I19 | 28 Sep 2020 | 9 | 16.59 | 66.39 | 7.5 | 33.44 | 8.1 | 24.4 | 2.04 |
| I19 | 28 Sep 2020 | 10 | 16.54 | 67.99 | 7.5 | 33.43 | 8.1 | 24.4 | 1.79 |
| I24 | 08 Sep 2020 | 1 | 18.44 | 82.45 | 8.6 | 33.44 | 8.2 | 24.0 | 1.96 |
| I24 | 08 Sep 2020 | 2 | 18.44 | 82.41 | 8.6 | 33.44 | 8.2 | 24.0 | 2.02 |
| I24 | 08 Sep 2020 | 3 | 18.43 | 82.46 | 8.6 | 33.44 | 8.2 | 24.0 | 2.15 |
| I24 | 08 Sep 2020 | 4 | 18.43 | 82.42 | 8.6 | 33.44 | 8.2 | 24.0 | 2.28 |
| I24 | 08 Sep 2020 | 5 | 18.43 | 82.52 | 8.6 | 33.44 | 8.2 | 24.0 | 2.32 |
| I24 | 08 Sep 2020 | 6 | 18.42 | 82.38 | 8.5 | 33.44 | 8.2 | 24.0 | 2.34 |
| I24 | 08 Sep 2020 | 7 | 18.40 | 81.35 | 8.5 | 33.44 | 8.2 | 24.0 | 2.28 |
| I24 | 08 Sep 2020 | 8 | 18.42 | 81.49 | 8.5 | 33.44 | 8.2 | 24.0 | 2.36 |
| I24 | 08 Sep 2020 | 9 | 18.41 | 81.99 | 8.4 | 33.44 | 8.2 | 24.0 | 2.27 |
| I24 | 08 Sep 2020 | 10 | 18.40 | 80.25 | 8.5 | 33.44 | 8.2 | 24.0 | 2.24 |
| I24 | 08 Sep 2020 | 11 | 18.40 | 79.72 | 8.5 | 33.44 | 8.2 | 24.0 | 2.27 |

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I24 | 14 Sep 2020 | 1 | 19.70 | 80.84 | 8.5 | 33.50 | 8.2 | 23.7 | 1.46 |
| I24 | 14 Sep 2020 | 2 | 19.50 | 80.71 | 8.4 | 33.52 | 8.2 | 23.8 | 1.65 |
| I24 | 14 Sep 2020 | 3 | 19.34 | 79.94 | 8.4 | 33.50 | 8.2 | 23.8 | 2.19 |
| I24 | 14 Sep 2020 | 4 | 19.11 | 78.54 | 8.3 | 33.51 | 8.2 | 23.9 | 2.80 |
| I24 | 14 Sep 2020 | 5 | 18.59 | 74.75 | 8.1 | 33.52 | 8.2 | 24.0 | 3.82 |
| I24 | 14 Sep 2020 | 6 | 17.82 | 72.49 | 7.8 | 33.51 | 8.1 | 24.2 | 4.50 |
| I24 | 14 Sep 2020 | 7 | 17.17 | 74.43 | 7.5 | 33.51 | 8.1 | 24.3 | 4.17 |
| I24 | 14 Sep 2020 | 8 | 16.96 | 77.31 | 7.4 | 33.47 | 8.1 | 24.4 | 3.21 |
| I24 | 14 Sep 2020 | 9 | 16.89 | 79.09 | 7.3 | 33.47 | 8.1 | 24.4 | 2.53 |
| I24 | 14 Sep 2020 | 10 | 16.68 | 79.21 | 7.3 | 33.48 | 8.1 | 24.4 | 2.28 |
| I24 | 14 Sep 2020 | 11 | 16.75 | 79.99 | 7.3 | 33.46 | 8.1 | 24.4 | 1.97 |
| I24 | 21 Sep 2020 | 1 | 19.04 | 86.53 | 8.2 | 33.48 | 8.1 | 23.8 | 0.59 |
| I24 | 21 Sep 2020 | 2 | 18.76 | 86.44 | 8.1 | 33.49 | 8.1 | 23.9 | 0.62 |
| I24 | 21 Sep 2020 | 3 | 18.38 | 85.64 | 8.2 | 33.48 | 8.1 | 24.0 | 0.68 |
| I24 | 21 Sep 2020 | 4 | 17.98 | 84.63 | 8.2 | 33.48 | 8.1 | 24.1 | 0.89 |
| I24 | 21 Sep 2020 | 5 | 17.56 | 83.47 | 8.2 | 33.47 | 8.1 | 24.2 | 1.09 |
| I24 | 21 Sep 2020 | 6 | 16.50 | 82.65 | 8.3 | 33.46 | 8.1 | 24.4 | 1.45 |
| I24 | 21 Sep 2020 | 7 | 15.86 | 82.06 | 8.0 | 33.47 | 8.1 | 24.6 | 1.89 |
| I24 | 21 Sep 2020 | 8 | 15.01 | 78.21 | 7.4 | 33.45 | 8.0 | 24.8 | 2.78 |
| I24 | 21 Sep 2020 | 9 | 14.60 | 71.68 | 7.0 | 33.44 | 8.0 | 24.9 | 4.30 |
| I24 | 21 Sep 2020 | 10 | 14.55 | 66.60 | 6.6 | 33.45 | 7.9 | 24.9 | 5.70 |
| I24 | 21 Sep 2020 | 11 | 14.38 | 65.99 | 6.2 | 33.45 | 7.9 | 24.9 | 5.64 |
| I24 | 28 Sep 2020 | 1 | 20.05 | 81.72 | 7.8 | 33.48 | 8.2 | 23.6 | 0.80 |
| I24 | 28 Sep 2020 | 2 | 19.90 | 81.69 | 7.8 | 33.49 | 8.2 | 23.6 | 0.90 |
| I24 | 28 Sep 2020 | 3 | 19.43 | 81.41 | 7.9 | 33.47 | 8.2 | 23.7 | 1.17 |
| I24 | 28 Sep 2020 | 4 | 18.93 | 80.37 | 7.8 | 33.47 | 8.1 | 23.9 | 1.22 |
| I24 | 28 Sep 2020 | 5 | 18.34 | 81.11 | 7.6 | 33.45 | 8.1 | 24.0 | 1.20 |
| I24 | 28 Sep 2020 | 6 | 17.71 | 80.84 | 7.5 | 33.46 | 8.1 | 24.2 | 1.25 |
| I24 | 28 Sep 2020 | 7 | 17.04 | 78.01 | 7.4 | 33.46 | 8.1 | 24.3 | 1.32 |
| I24 | 28 Sep 2020 | 8 | 16.58 | 73.30 | 7.5 | 33.45 | 8.1 | 24.4 | 1.37 |
| I24 | 28 Sep 2020 | 9 | 16.42 | 68.96 | 7.5 | 33.44 | 8.1 | 24.5 | 1.47 |
| I24 | 28 Sep 2020 | 10 | 16.42 | 55.84 | 7.6 | 33.43 | 8.1 | 24.4 | 1.53 |
| I24 | 28 Sep 2020 | 11 | 17.00 | 46.65 | 7.4 | 33.37 | 8.1 | 24.3 | 1.49 |
| I25 | 08 Sep 2020 | 1 | 18.38 | 81.79 | 8.6 | 33.44 | 8.2 | 24.0 | 2.04 |
| I25 | 08 Sep 2020 | 2 | 18.37 | 81.81 | 8.5 | 33.44 | 8.2 | 24.0 | 2.15 |
| I25 | 08 Sep 2020 | 3 | 18.37 | 81.88 | 8.5 | 33.44 | 8.2 | 24.0 | 2.24 |
| I25 | 08 Sep 2020 | 4 | 18.36 | 81.81 | 8.5 | 33.44 | 8.2 | 24.0 | 2.27 |
| I25 | 08 Sep 2020 | 5 | 18.37 | 81.72 | 8.6 | 33.44 | 8.2 | 24.0 | 2.37 |
| I25 | 08 Sep 2020 | 6 | 18.36 | 81.71 | 8.5 | 33.44 | 8.2 | 24.0 | 2.33 |
| I25 | 08 Sep 2020 | 7 | 18.35 | 81.42 | 8.5 | 33.44 | 8.2 | 24.0 | 2.28 |
| I25 | 08 Sep 2020 | 8 | 18.34 | 81.43 | 8.4 | 33.43 | 8.2 | 24.0 | 2.27 |
| I25 | 08 Sep 2020 | 9 | 18.34 | 81.41 | 8.4 | 33.43 | 8.2 | 24.0 | 2.21 |
| I25 | 14 Sep 2020 | 1 | 19.98 | 82.91 | 8.5 | 33.50 | 8.2 | 23.6 | 1.40 |
| I25 | 14 Sep 2020 | 2 | 19.91 | 82.67 | 8.4 | 33.51 | 8.2 | 23.6 | 1.53 |
| I25 | 14 Sep 2020 | 3 | 19.14 | 81.40 | 8.5 | 33.52 | 8.2 | 23.9 | 2.43 |
| I25 | 14 Sep 2020 | 4 | 18.72 | 78.91 | 8.3 | 33.50 | 8.2 | 23.9 | 3.30 |
| I25 | 14 Sep 2020 | 5 | 18.37 | 75.56 | 8.0 | 33.50 | 8.2 | 24.0 | 4.01 |
| I25 | 14 Sep 2020 | 6 | 17.62 | 74.42 | 7.8 | 33.49 | 8.1 | 24.2 | 4.84 |
| I25 | 14 Sep 2020 | 7 | 17.02 | 78.55 | 7.6 | 33.48 | 8.1 | 24.3 | 3.46 |
| I25 | 14 Sep 2020 | 8 | 16.98 | 81.69 | 7.4 | 33.46 | 8.1 | 24.3 | 2.42 |
| I25 | 14 Sep 2020 | 9 | 17.00 | 82.33 | 7.4 | 33.46 | 8.1 | 24.3 | 1.90 |
| I25 | 21 Sep 2020 | 1 | 19.25 | 87.31 | 8.1 | 33.48 | 8.1 | 23.8 | 0.49 |
| I25 | 21 Sep 2020 | 2 | 18.79 | 87.29 | 8.2 | 33.49 | 8.1 | 23.9 | 0.57 |
| I25 | 21 Sep 2020 | 3 | 18.40 | 87.03 | 8.2 | 33.48 | 8.1 | 24.0 | 0.62 |
| I25 | 21 Sep 2020 | 4 | 17.77 | 86.11 | 8.4 | 33.48 | 8.1 | 24.2 | 0.74 |
| I25 | 21 Sep 2020 | 5 | 17.34 | 84.67 | 8.4 | 33.47 | 8.1 | 24.3 | 0.98 |

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I25 | 21 Sep 2020 | 6 | 16.33 | 82.39 | 8.3 | 33.46 | 8.1 | 24.5 | 1.37 |
| I25 | 21 Sep 2020 | 7 | 15.58 | 79.71 | 7.8 | 33.47 | 8.1 | 24.7 | 1.93 |
| I25 | 21 Sep 2020 | 8 | 14.74 | 75.01 | 7.1 | 33.46 | 8.0 | 24.8 | 2.92 |
| I25 | 21 Sep 2020 | 9 | 14.63 | 71.19 | 6.7 | 33.44 | 8.0 | 24.9 | 3.40 |
| I25 | 28 Sep 2020 | 1 | 19.95 | 81.55 | 7.8 | 33.48 | 8.2 | 23.6 | 0.79 |
| I25 | 28 Sep 2020 | 2 | 19.95 | 81.47 | 7.8 | 33.48 | 8.2 | 23.6 | 0.81 |
| I25 | 28 Sep 2020 | 3 | 19.73 | 81.17 | 7.8 | 33.49 | 8.2 | 23.7 | 0.98 |
| I25 | 28 Sep 2020 | 4 | 19.12 | 80.27 | 7.9 | 33.47 | 8.2 | 23.8 | 1.31 |
| I25 | 28 Sep 2020 | 5 | 18.75 | 80.55 | 7.9 | 33.47 | 8.2 | 23.9 | 1.41 |
| I25 | 28 Sep 2020 | 6 | 17.79 | 82.35 | 7.9 | 33.48 | 8.2 | 24.2 | 1.53 |
| I25 | 28 Sep 2020 | 7 | 17.06 | 81.20 | 7.8 | 33.46 | 8.1 | 24.3 | 1.63 |
| I25 | 28 Sep 2020 | 8 | 16.98 | 75.84 | 7.7 | 33.44 | 8.1 | 24.3 | 1.44 |
| I25 | 28 Sep 2020 | 9 | 16.98 | 73.10 | 7.7 | 33.43 | 8.1 | 24.3 | 1.29 |
| I26 | 08 Sep 2020 | 1 | 18.45 | 79.12 | 8.4 | 33.42 | 8.2 | 24.0 | 2.03 |
| I26 | 08 Sep 2020 | 2 | 18.44 | 79.32 | 8.4 | 33.42 | 8.2 | 24.0 | 2.12 |
| I26 | 08 Sep 2020 | 3 | 18.42 | 79.82 | 8.4 | 33.42 | 8.2 | 24.0 | 2.24 |
| I26 | 08 Sep 2020 | 4 | 18.42 | 79.73 | 8.3 | 33.42 | 8.2 | 24.0 | 2.25 |
| I26 | 08 Sep 2020 | 5 | 18.42 | 79.64 | 8.3 | 33.42 | 8.2 | 24.0 | 2.29 |
| I26 | 08 Sep 2020 | 6 | 18.42 | 79.64 | 8.3 | 33.42 | 8.2 | 24.0 | 2.34 |
| I26 | 08 Sep 2020 | 7 | 18.42 | 79.72 | 8.3 | 33.42 | 8.2 | 24.0 | 2.34 |
| I26 | 08 Sep 2020 | 8 | 18.42 | 79.60 | 8.3 | 33.42 | 8.2 | 24.0 | 2.33 |
| I26 | 08 Sep 2020 | 9 | 18.42 | 79.49 | 8.3 | 33.42 | 8.2 | 24.0 | 2.31 |
| I26 | 14 Sep 2020 | 1 | 19.93 | 81.56 | 8.5 | 33.51 | 8.2 | 23.6 | 1.23 |
| I26 | 14 Sep 2020 | 2 | 19.70 | 81.51 | 8.6 | 33.51 | 8.2 | 23.7 | 1.54 |
| I26 | 14 Sep 2020 | 3 | 19.64 | 81.40 | 8.6 | 33.51 | 8.2 | 23.7 | 1.82 |
| I26 | 14 Sep 2020 | 4 | 19.10 | 80.79 | 8.8 | 33.52 | 8.2 | 23.9 | 2.40 |
| I26 | 14 Sep 2020 | 5 | 18.54 | 79.34 | 8.9 | 33.50 | 8.2 | 24.0 | 3.06 |
| I26 | 14 Sep 2020 | 6 | 18.01 | 78.80 | 8.9 | 33.50 | 8.2 | 24.1 | 3.49 |
| I26 | 14 Sep 2020 | 7 | 17.80 | 78.54 | 8.7 | 33.48 | 8.2 | 24.2 | 3.98 |
| I26 | 14 Sep 2020 | 8 | 17.55 | 77.07 | 8.4 | 33.49 | 8.2 | 24.2 | 4.50 |
| I26 | 14 Sep 2020 | 9 | 16.66 | 77.16 | 8.1 | 33.47 | 8.1 | 24.4 | 3.53 |
| I26 | 21 Sep 2020 | 1 | 18.68 | 86.06 | 8.2 | 33.47 | 8.1 | 23.9 | 0.58 |
| I26 | 21 Sep 2020 | 2 | 18.35 | 86.09 | 8.2 | 33.49 | 8.1 | 24.0 | 0.62 |
| I26 | 21 Sep 2020 | 3 | 17.64 | 85.85 | 8.4 | 33.48 | 8.1 | 24.2 | 0.70 |
| I26 | 21 Sep 2020 | 4 | 17.30 | 85.04 | 8.6 | 33.46 | 8.1 | 24.3 | 0.89 |
| I26 | 21 Sep 2020 | 5 | 17.24 | 83.91 | 8.5 | 33.45 | 8.1 | 24.3 | 1.13 |
| I26 | 21 Sep 2020 | 6 | 16.76 | 82.98 | 8.5 | 33.46 | 8.1 | 24.4 | 1.39 |
| I26 | 21 Sep 2020 | 7 | 16.31 | 82.19 | 8.6 | 33.44 | 8.1 | 24.5 | 1.79 |
| I26 | 21 Sep 2020 | 8 | 16.12 | 81.38 | 8.5 | 33.43 | 8.1 | 24.5 | 2.71 |
| I26 | 21 Sep 2020 | 9 | 15.62 | 77.22 | 8.1 | 33.44 | 8.1 | 24.6 | 3.38 |
| I26 | 28 Sep 2020 | 1 | 20.34 | 82.51 | 7.8 | 33.51 | 8.2 | 23.5 | 0.84 |
| I26 | 28 Sep 2020 | 2 | 20.16 | 82.49 | 7.7 | 33.54 | 8.2 | 23.6 | 0.85 |
| I26 | 28 Sep 2020 | 3 | 19.45 | 82.54 | 7.9 | 33.50 | 8.2 | 23.8 | 0.89 |
| I26 | 28 Sep 2020 | 4 | 18.91 | 83.67 | 8.0 | 33.49 | 8.2 | 23.9 | 0.97 |
| I26 | 28 Sep 2020 | 5 | 18.25 | 83.24 | 7.9 | 33.50 | 8.1 | 24.1 | 1.11 |
| I26 | 28 Sep 2020 | 6 | 17.57 | 82.61 | 8.1 | 33.50 | 8.1 | 24.2 | 1.25 |
| I26 | 28 Sep 2020 | 7 | 17.10 | 82.29 | 8.2 | 33.47 | 8.1 | 24.3 | 1.39 |
| I26 | 28 Sep 2020 | 8 | 16.88 | 80.74 | 8.2 | 33.45 | 8.1 | 24.4 | 1.45 |
| I26 | 28 Sep 2020 | 9 | 16.84 | 78.57 | 8.1 | 33.44 | 8.1 | 24.4 | 1.45 |
| I32 | 08 Sep 2020 | 1 | 19.56 | 78.75 | 7.6 | 33.49 | 8.1 | 23.7 | 3.01 |
| I32 | 08 Sep 2020 | 2 | 19.17 | 78.83 | 7.7 | 33.49 | 8.1 | 23.8 | 3.09 |
| I32 | 08 Sep 2020 | 3 | 18.89 | 79.33 | 7.7 | 33.47 | 8.1 | 23.9 | 3.21 |
| I32 | 08 Sep 2020 | 4 | 18.53 | 77.75 | 7.8 | 33.44 | 8.1 | 23.9 | 3.35 |
| I32 | 08 Sep 2020 | 5 | 18.39 | 76.95 | 7.8 | 33.43 | 8.1 | 24.0 | 3.35 |
| I32 | 08 Sep 2020 | 6 | 18.25 | 75.87 | 7.8 | 33.42 | 8.1 | 24.0 | 3.25 |

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I32 | 08 Sep 2020 | 7 | 18.23 | 75.37 | 7.8 | 33.42 | 8.1 | 24.0 | 3.13 |
| I32 | 08 Sep 2020 | 8 | 18.08 | 78.70 | 7.9 | 33.43 | 8.1 | 24.0 | 2.50 |
| I32 | 08 Sep 2020 | 9 | 17.90 | 77.49 | 7.9 | 33.43 | 8.1 | 24.1 | 2.33 |
| I32 | 08 Sep 2020 | 10 | 17.74 | 74.03 | 7.9 | 33.42 | 8.1 | 24.1 | 2.24 |
| I32 | 14 Sep 2020 | 1 | 19.84 | 80.00 | 7.4 | 33.39 | 8.2 | 23.6 | 1.67 |
| I32 | 14 Sep 2020 | 2 | 19.60 | 79.70 | 8.0 | 33.57 | 8.2 | 23.8 | 3.55 |
| I32 | 14 Sep 2020 | 3 | 18.86 | 76.95 | 7.9 | 33.62 | 8.2 | 24.0 | 3.01 |
| I32 | 14 Sep 2020 | 4 | 18.43 | 74.11 | 7.6 | 33.72 | 8.1 | 24.2 | 2.75 |
| I32 | 14 Sep 2020 | 5 | 18.10 | 72.18 | 7.7 | 33.76 | 8.1 | 24.3 | 2.39 |
| I32 | 14 Sep 2020 | 6 | 17.38 | 71.92 | 7.8 | 33.99 | 8.1 | 24.6 | 2.17 |
| I32 | 14 Sep 2020 | 7 | 16.72 | 71.53 | 7.8 | 33.83 | 8.1 | 24.7 | 2.24 |
| I32 | 14 Sep 2020 | 8 | 16.61 | 72.24 | 7.6 | 33.63 | 8.1 | 24.6 | 3.09 |
| I32 | 14 Sep 2020 | 9 | 16.55 | 71.80 | 7.4 | 33.54 | 8.1 | 24.5 | 4.84 |
| I32 | 21 Sep 2020 | 1 | 19.29 | 78.16 | 7.9 | 33.48 | 8.1 | 23.8 | 0.93 |
| I32 | 21 Sep 2020 | 2 | 18.94 | 78.03 | 7.8 | 33.49 | 8.1 | 23.9 | 1.00 |
| I32 | 21 Sep 2020 | 3 | 18.20 | 76.49 | 8.0 | 33.47 | 8.1 | 24.1 | 1.11 |
| I32 | 21 Sep 2020 | 4 | 17.67 | 76.40 | 8.2 | 33.48 | 8.1 | 24.2 | 1.55 |
| I32 | 21 Sep 2020 | 5 | 17.16 | 77.60 | 8.4 | 33.47 | 8.1 | 24.3 | 2.18 |
| I32 | 21 Sep 2020 | 6 | 16.80 | 78.46 | 8.4 | 33.45 | 8.1 | 24.4 | 2.82 |
| I32 | 21 Sep 2020 | 7 | 16.70 | 77.03 | 8.3 | 33.45 | 8.1 | 24.4 | 3.34 |
| I32 | 21 Sep 2020 | 8 | 16.58 | 76.68 | 8.2 | 33.45 | 8.1 | 24.4 | 3.60 |
| I32 | 21 Sep 2020 | 9 | 16.35 | 75.50 | 8.1 | 33.45 | 8.1 | 24.5 | 3.85 |
| I32 | 21 Sep 2020 | 10 | 16.24 | 74.46 | 8.0 | 33.46 | 8.1 | 24.5 | 3.98 |
| I32 | 28 Sep 2020 | 1 | 20.35 | 78.14 | 7.8 | 33.54 | 8.2 | 23.6 | 1.17 |
| I32 | 28 Sep 2020 | 2 | 20.32 | 78.04 | 7.7 | 33.54 | 8.2 | 23.6 | 1.23 |
| I32 | 28 Sep 2020 | 3 | 19.97 | 76.98 | 7.6 | 33.54 | 8.2 | 23.7 | 1.42 |
| I32 | 28 Sep 2020 | 4 | 19.66 | 75.26 | 7.6 | 33.51 | 8.2 | 23.7 | 1.66 |
| I32 | 28 Sep 2020 | 5 | 19.05 | 71.75 | 7.7 | 33.49 | 8.2 | 23.9 | 2.05 |
| I32 | 28 Sep 2020 | 6 | 18.44 | 72.15 | 8.0 | 33.46 | 8.2 | 24.0 | 2.27 |
| I32 | 28 Sep 2020 | 7 | 17.93 | 78.74 | 8.2 | 33.44 | 8.2 | 24.1 | 2.30 |
| I32 | 28 Sep 2020 | 8 | 17.89 | 82.23 | 8.2 | 33.43 | 8.2 | 24.1 | 2.25 |
| I32 | 28 Sep 2020 | 9 | 17.50 | 82.25 | 8.2 | 33.44 | 8.2 | 24.2 | 2.13 |
| I32 | 28 Sep 2020 | 10 | 17.56 | 80.97 | 8.2 | 33.43 | 8.2 | 24.2 | 2.14 |
| I39 | 08 Sep 2020 | 1 | 19.11 | 85.45 | 8.2 | 33.48 | 8.2 | 23.8 | 2.00 |
| I39 | 08 Sep 2020 | 2 | 19.01 | 85.50 | 8.2 | 33.48 | 8.2 | 23.9 | 2.10 |
| I39 | 08 Sep 2020 | 3 | 18.78 | 85.02 | 8.3 | 33.48 | 8.2 | 23.9 | 2.29 |
| I39 | 08 Sep 2020 | 4 | 18.46 | 84.77 | 8.4 | 33.47 | 8.2 | 24.0 | 2.16 |
| I39 | 08 Sep 2020 | 5 | 18.18 | 84.94 | 8.5 | 33.47 | 8.2 | 24.1 | 2.24 |
| I39 | 08 Sep 2020 | 6 | 18.04 | 83.82 | 8.5 | 33.45 | 8.2 | 24.1 | 2.50 |
| I39 | 08 Sep 2020 | 7 | 17.98 | 82.36 | 8.4 | 33.45 | 8.2 | 24.1 | 2.75 |
| I39 | 08 Sep 2020 | 8 | 17.96 | 80.73 | 8.4 | 33.44 | 8.2 | 24.1 | 2.89 |
| I39 | 08 Sep 2020 | 9 | 17.89 | 79.86 | 8.4 | 33.44 | 8.2 | 24.1 | 2.94 |
| I39 | 08 Sep 2020 | 10 | 17.82 | 79.32 | 8.4 | 33.44 | 8.2 | 24.1 | 3.04 |
| I39 | 08 Sep 2020 | 11 | 17.79 | 78.38 | 8.5 | 33.45 | 8.2 | 24.1 | 3.10 |
| I39 | 08 Sep 2020 | 12 | 17.61 | 79.30 | 8.5 | 33.46 | 8.2 | 24.2 | 3.13 |
| I39 | 08 Sep 2020 | 13 | 17.41 | 80.04 | 8.6 | 33.46 | 8.2 | 24.2 | 3.20 |
| I39 | 08 Sep 2020 | 14 | 17.33 | 80.11 | 8.6 | 33.45 | 8.2 | 24.2 | 3.31 |
| I39 | 08 Sep 2020 | 15 | 17.11 | 80.06 | 8.6 | 33.46 | 8.2 | 24.3 | 3.26 |
| I39 | 08 Sep 2020 | 16 | 16.98 | 80.58 | 8.7 | 33.46 | 8.2 | 24.3 | 3.20 |
| I39 | 08 Sep 2020 | 17 | 16.99 | 81.01 | 8.7 | 33.45 | 8.2 | 24.3 | 3.25 |
| I39 | 08 Sep 2020 | 18 | 16.69 | 81.10 | 8.6 | 33.47 | 8.2 | 24.4 | 3.20 |
| I39 | 14 Sep 2020 | 1 | 20.02 | 86.09 | 8.4 | 33.52 | 8.2 | 23.6 | 0.80 |
| I39 | 14 Sep 2020 | 2 | 19.93 | 85.91 | 8.5 | 33.52 | 8.2 | 23.6 | 0.95 |
| I39 | 14 Sep 2020 | 3 | 19.89 | 85.09 | 8.4 | 33.51 | 8.2 | 23.7 | 1.24 |
| I39 | 14 Sep 2020 | 4 | 18.43 | 83.90 | 8.6 | 33.57 | 8.2 | 24.1 | 1.78 |
| I39 | 14 Sep 2020 | 5 | 16.98 | 81.87 | 8.8 | 33.49 | 8.2 | 24.4 | 2.36 |

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I39 | 14 Sep 2020 | 6 | 16.73 | 81.69 | 8.7 | 33.47 | 8.2 | 24.4 | 2.74 |
| I39 | 14 Sep 2020 | 7 | 16.63 | 81.59 | 8.8 | 33.46 | 8.2 | 24.4 | 3.06 |
| I39 | 14 Sep 2020 | 8 | 16.61 | 81.42 | 8.8 | 33.46 | 8.2 | 24.4 | 3.31 |
| I39 | 14 Sep 2020 | 9 | 16.48 | 81.60 | 8.8 | 33.46 | 8.2 | 24.5 | 3.53 |
| I39 | 14 Sep 2020 | 10 | 15.96 | 82.14 | 8.6 | 33.47 | 8.2 | 24.6 | 3.81 |
| I39 | 14 Sep 2020 | 11 | 15.47 | 82.32 | 8.3 | 33.46 | 8.1 | 24.7 | 4.34 |
| I39 | 14 Sep 2020 | 12 | 15.39 | 82.31 | 8.0 | 33.45 | 8.1 | 24.7 | 4.44 |
| I39 | 14 Sep 2020 | 13 | 15.22 | 82.52 | 7.7 | 33.46 | 8.1 | 24.7 | 4.19 |
| I39 | 14 Sep 2020 | 14 | 15.07 | 83.18 | 7.4 | 33.46 | 8.1 | 24.8 | 3.71 |
| I39 | 14 Sep 2020 | 15 | 15.09 | 83.49 | 7.3 | 33.46 | 8.0 | 24.8 | 3.57 |
| I39 | 14 Sep 2020 | 16 | 14.83 | 84.57 | 7.2 | 33.47 | 8.0 | 24.8 | 3.27 |
| I39 | 14 Sep 2020 | 17 | 14.81 | 84.96 | 7.2 | 33.46 | 8.0 | 24.8 | 2.98 |
| I39 | 14 Sep 2020 | 18 | 14.68 | 85.02 | 7.2 | 33.47 | 8.0 | 24.9 | 2.77 |
| I39 | 21 Sep 2020 | 1 | 17.80 | 85.73 | 8.4 | 33.46 | 8.1 | 24.1 | 1.04 |
| I39 | 21 Sep 2020 | 2 | 17.18 | 84.81 | 8.5 | 33.48 | 8.1 | 24.3 | 1.30 |
| I39 | 21 Sep 2020 | 3 | 16.84 | 83.07 | 8.6 | 33.45 | 8.1 | 24.4 | 1.58 |
| I39 | 21 Sep 2020 | 4 | 16.62 | 82.25 | 8.7 | 33.45 | 8.1 | 24.4 | 1.66 |
| I39 | 21 Sep 2020 | 5 | 16.49 | 82.09 | 8.6 | 33.44 | 8.1 | 24.4 | 1.69 |
| I39 | 21 Sep 2020 | 6 | 15.91 | 82.21 | 8.6 | 33.44 | 8.1 | 24.6 | 1.83 |
| I39 | 21 Sep 2020 | 7 | 15.66 | 81.63 | 8.6 | 33.42 | 8.1 | 24.6 | 2.37 |
| I39 | 21 Sep 2020 | 8 | 15.39 | 81.04 | 8.4 | 33.43 | 8.1 | 24.7 | 3.09 |
| I39 | 21 Sep 2020 | 9 | 15.05 | 79.64 | 8.0 | 33.44 | 8.1 | 24.8 | 3.82 |
| I39 | 21 Sep 2020 | 10 | 14.62 | 79.05 | 7.6 | 33.44 | 8.0 | 24.9 | 4.28 |
| I39 | 21 Sep 2020 | 11 | 13.96 | 80.29 | 7.2 | 33.46 | 8.0 | 25.0 | 4.02 |
| I39 | 21 Sep 2020 | 12 | 13.79 | 82.70 | 6.9 | 33.45 | 7.9 | 25.0 | 3.71 |
| I39 | 21 Sep 2020 | 13 | 13.69 | 83.99 | 6.8 | 33.46 | 7.9 | 25.1 | 3.70 |
| I39 | 21 Sep 2020 | 14 | 13.70 | 84.79 | 6.8 | 33.45 | 7.9 | 25.1 | 3.70 |
| I39 | 21 Sep 2020 | 15 | 13.65 | 85.18 | 6.7 | 33.46 | 7.9 | 25.1 | 3.73 |
| I39 | 21 Sep 2020 | 16 | 13.65 | 85.29 | 6.7 | 33.46 | 7.9 | 25.1 | 3.65 |
| I39 | 21 Sep 2020 | 17 | 13.64 | 85.57 | 6.7 | 33.46 | 7.9 | 25.1 | 3.59 |
| I39 | 21 Sep 2020 | 18 | 13.64 | 85.68 | 6.7 | 33.47 | 7.9 | 25.1 | 3.58 |
| I39 | 28 Sep 2020 | 1 | 19.77 | 84.00 | 8.0 | 33.49 | 8.2 | 23.7 | 0.87 |
| I39 | 28 Sep 2020 | 2 | 19.73 | 83.66 | 8.0 | 33.49 | 8.2 | 23.7 | 0.94 |
| I39 | 28 Sep 2020 | 3 | 19.64 | 83.39 | 7.9 | 33.49 | 8.2 | 23.7 | 1.14 |
| I39 | 28 Sep 2020 | 4 | 19.54 | 82.91 | 8.0 | 33.49 | 8.2 | 23.7 | 1.35 |
| I39 | 28 Sep 2020 | 5 | 19.49 | 83.10 | 8.0 | 33.48 | 8.2 | 23.7 | 1.46 |
| I39 | 28 Sep 2020 | 6 | 19.38 | 83.40 | 8.0 | 33.48 | 8.2 | 23.8 | 1.60 |
| I39 | 28 Sep 2020 | 7 | 19.07 | 83.49 | 8.0 | 33.48 | 8.2 | 23.8 | 1.75 |
| I39 | 28 Sep 2020 | 8 | 18.73 | 82.97 | 8.2 | 33.47 | 8.2 | 23.9 | 1.79 |
| I39 | 28 Sep 2020 | 9 | 18.60 | 83.18 | 8.3 | 33.46 | 8.2 | 23.9 | 1.64 |
| I39 | 28 Sep 2020 | 10 | 18.02 | 84.33 | 8.5 | 33.48 | 8.2 | 24.1 | 1.51 |
| I39 | 28 Sep 2020 | 11 | 17.76 | 85.66 | 8.6 | 33.45 | 8.2 | 24.1 | 1.48 |
| I39 | 28 Sep 2020 | 12 | 17.38 | 85.04 | 8.6 | 33.45 | 8.2 | 24.2 | 1.73 |
| I39 | 28 Sep 2020 | 13 | 17.10 | 82.38 | 8.6 | 33.44 | 8.2 | 24.3 | 1.82 |
| I39 | 28 Sep 2020 | 14 | 16.94 | 81.90 | 8.6 | 33.44 | 8.2 | 24.3 | 1.80 |
| I39 | 28 Sep 2020 | 15 | 16.81 | 81.96 | 8.6 | 33.44 | 8.2 | 24.4 | 1.87 |
| I39 | 28 Sep 2020 | 16 | 16.63 | 82.33 | 8.5 | 33.44 | 8.2 | 24.4 | 1.98 |
| I39 | 28 Sep 2020 | 17 | 16.07 | 82.13 | 8.2 | 33.46 | 8.1 | 24.5 | 1.87 |
| I39 | 28 Sep 2020 | 18 | 15.45 | 80.49 | 8.0 | 33.46 | 8.1 | 24.7 | 1.78 |
| I40 | 08 Sep 2020 | 1 | 18.63 | 79.26 | 8.5 | 33.43 | 8.2 | 23.9 | 2.57 |
| I40 | 08 Sep 2020 | 2 | 18.62 | 79.37 | 8.5 | 33.42 | 8.2 | 23.9 | 2.71 |
| I40 | 08 Sep 2020 | 3 | 18.62 | 79.44 | 8.5 | 33.42 | 8.2 | 23.9 | 2.83 |
| I40 | 08 Sep 2020 | 4 | 18.62 | 79.50 | 8.4 | 33.43 | 8.2 | 23.9 | 2.93 |
| I40 | 08 Sep 2020 | 5 | 18.62 | 79.44 | 8.4 | 33.43 | 8.2 | 23.9 | 3.01 |
| I40 | 08 Sep 2020 | 6 | 18.61 | 79.49 | 8.4 | 33.43 | 8.2 | 23.9 | 3.02 |
| I40 | 08 Sep 2020 | 7 | 18.61 | 79.40 | 8.4 | 33.43 | 8.2 | 23.9 | 3.06 |
| I40 | 08 Sep 2020 | 8 | 18.60 | 79.23 | 8.3 | 33.43 | 8.2 | 23.9 | 3.13 |
| I40 | 08 Sep 2020 | 9 | 18.59 | 79.04 | 8.3 | 33.43 | 8.2 | 23.9 | 3.10 |

| Station | Date | Depth (m) | Temp (°C) | XMS (‰) | DO (mg/L) | Sal (ppt) | pH | Dens (σ -t) | Chlor (μ g/L) |
|---------|-------------|-----------|-----------|---------|-----------|-----------|-----|---------------------|--------------------|
| I40 | 08 Sep 2020 | 10 | 18.55 | 77.54 | 8.3 | 33.43 | 8.2 | 23.9 | 2.95 |
| I40 | 14 Sep 2020 | 1 | 19.08 | 73.96 | 8.0 | 33.49 | 8.1 | 23.8 | 2.42 |
| I40 | 14 Sep 2020 | 2 | 19.05 | 73.52 | 8.0 | 33.49 | 8.1 | 23.9 | 2.67 |
| I40 | 14 Sep 2020 | 3 | 18.61 | 72.72 | 8.2 | 33.50 | 8.2 | 24.0 | 3.88 |
| I40 | 14 Sep 2020 | 4 | 18.56 | 71.70 | 8.2 | 33.48 | 8.2 | 24.0 | 4.94 |
| I40 | 14 Sep 2020 | 5 | 18.26 | 71.02 | 8.4 | 33.49 | 8.2 | 24.1 | 6.41 |
| I40 | 14 Sep 2020 | 6 | 18.12 | 69.37 | 8.5 | 33.48 | 8.2 | 24.1 | 8.19 |
| I40 | 14 Sep 2020 | 7 | 18.11 | 67.59 | 8.5 | 33.48 | 8.2 | 24.1 | 8.68 |
| I40 | 14 Sep 2020 | 8 | 17.89 | 68.58 | 8.4 | 33.49 | 8.2 | 24.1 | 7.81 |
| I40 | 14 Sep 2020 | 9 | 17.37 | 71.57 | 8.3 | 33.48 | 8.1 | 24.3 | 6.45 |
| I40 | 14 Sep 2020 | 10 | 17.01 | 74.11 | 8.2 | 33.47 | 8.1 | 24.3 | 4.88 |
| I40 | 21 Sep 2020 | 1 | 19.11 | 76.14 | 7.8 | 33.47 | 8.1 | 23.8 | 0.95 |
| I40 | 21 Sep 2020 | 2 | 18.47 | 76.01 | 7.8 | 33.49 | 8.1 | 24.0 | 1.04 |
| I40 | 21 Sep 2020 | 3 | 17.71 | 76.86 | 8.2 | 33.48 | 8.1 | 24.2 | 1.14 |
| I40 | 21 Sep 2020 | 4 | 17.38 | 78.68 | 8.2 | 33.47 | 8.1 | 24.2 | 1.34 |
| I40 | 21 Sep 2020 | 5 | 16.96 | 79.23 | 8.3 | 33.46 | 8.1 | 24.3 | 1.64 |
| I40 | 21 Sep 2020 | 6 | 16.63 | 79.64 | 8.2 | 33.45 | 8.1 | 24.4 | 1.96 |
| I40 | 21 Sep 2020 | 7 | 15.94 | 79.52 | 7.6 | 33.47 | 8.1 | 24.6 | 2.63 |
| I40 | 21 Sep 2020 | 8 | 14.86 | 74.39 | 7.1 | 33.47 | 8.0 | 24.8 | 4.04 |
| I40 | 21 Sep 2020 | 9 | 14.59 | 67.76 | 6.7 | 33.45 | 8.0 | 24.9 | 5.90 |
| I40 | 21 Sep 2020 | 10 | 14.56 | 62.62 | 6.3 | 33.44 | 7.9 | 24.9 | 6.04 |
| I40 | 28 Sep 2020 | 1 | 19.98 | 75.18 | 7.3 | 33.50 | 8.1 | 23.6 | 0.66 |
| I40 | 28 Sep 2020 | 2 | 19.94 | 74.90 | 7.3 | 33.50 | 8.1 | 23.6 | 0.77 |
| I40 | 28 Sep 2020 | 3 | 19.79 | 74.52 | 7.3 | 33.49 | 8.1 | 23.7 | 1.09 |
| I40 | 28 Sep 2020 | 4 | 19.55 | 73.45 | 7.3 | 33.48 | 8.1 | 23.7 | 1.40 |
| I40 | 28 Sep 2020 | 5 | 18.81 | 72.16 | 7.2 | 33.48 | 8.1 | 23.9 | 1.52 |
| I40 | 28 Sep 2020 | 6 | 17.57 | 73.12 | 7.5 | 33.47 | 8.1 | 24.2 | 1.70 |
| I40 | 28 Sep 2020 | 7 | 16.91 | 75.67 | 7.6 | 33.45 | 8.1 | 24.3 | 1.74 |
| I40 | 28 Sep 2020 | 8 | 16.71 | 73.28 | 7.3 | 33.44 | 8.1 | 24.4 | 1.74 |
| I40 | 28 Sep 2020 | 9 | 16.36 | 54.31 | 7.1 | 33.44 | 8.1 | 24.5 | 1.94 |
| I40 | 28 Sep 2020 | 10 | 16.25 | 20.55 | 7.2 | 33.42 | 8.1 | 24.5 | 2.14 |

NA = not available

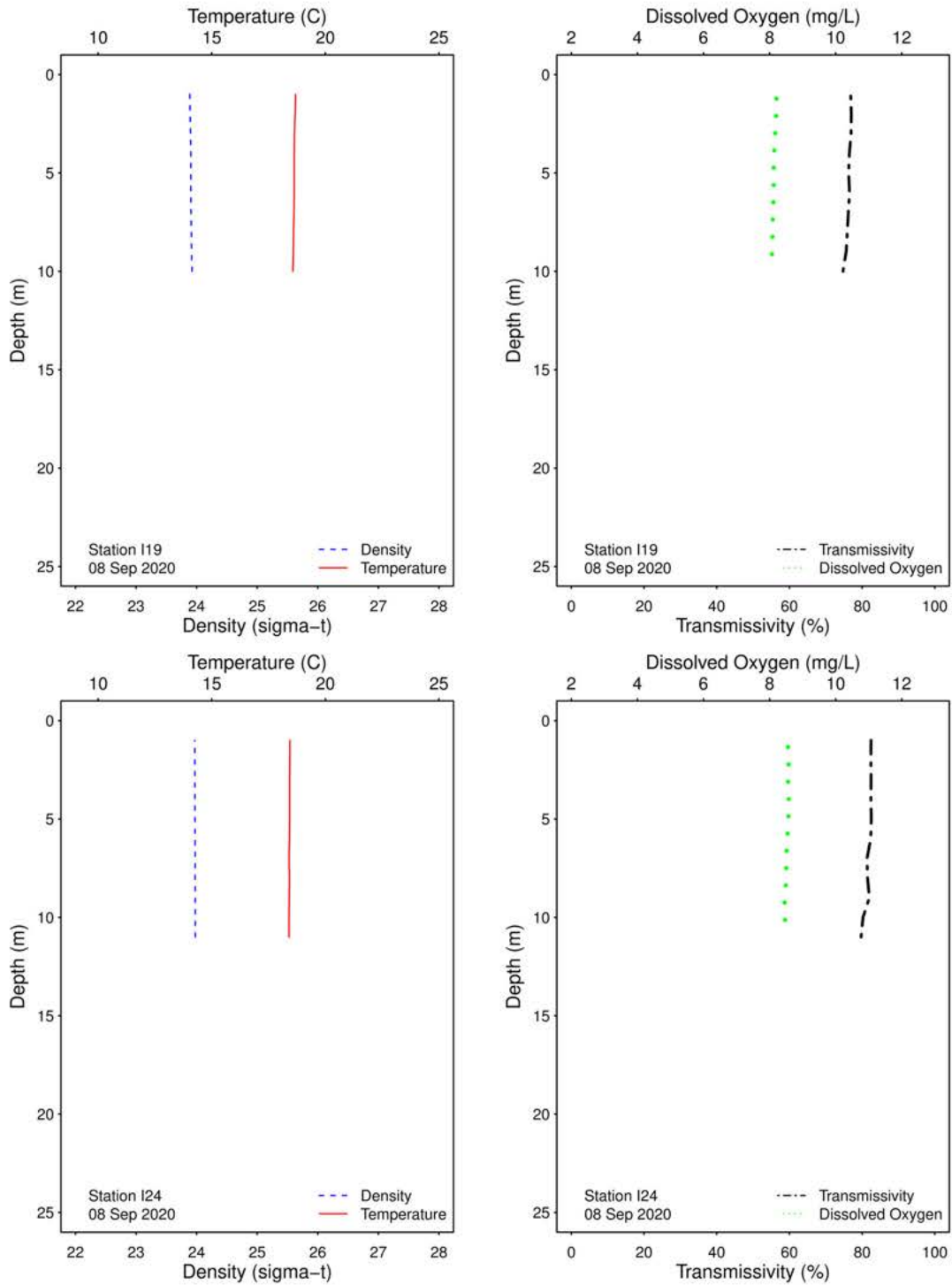


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

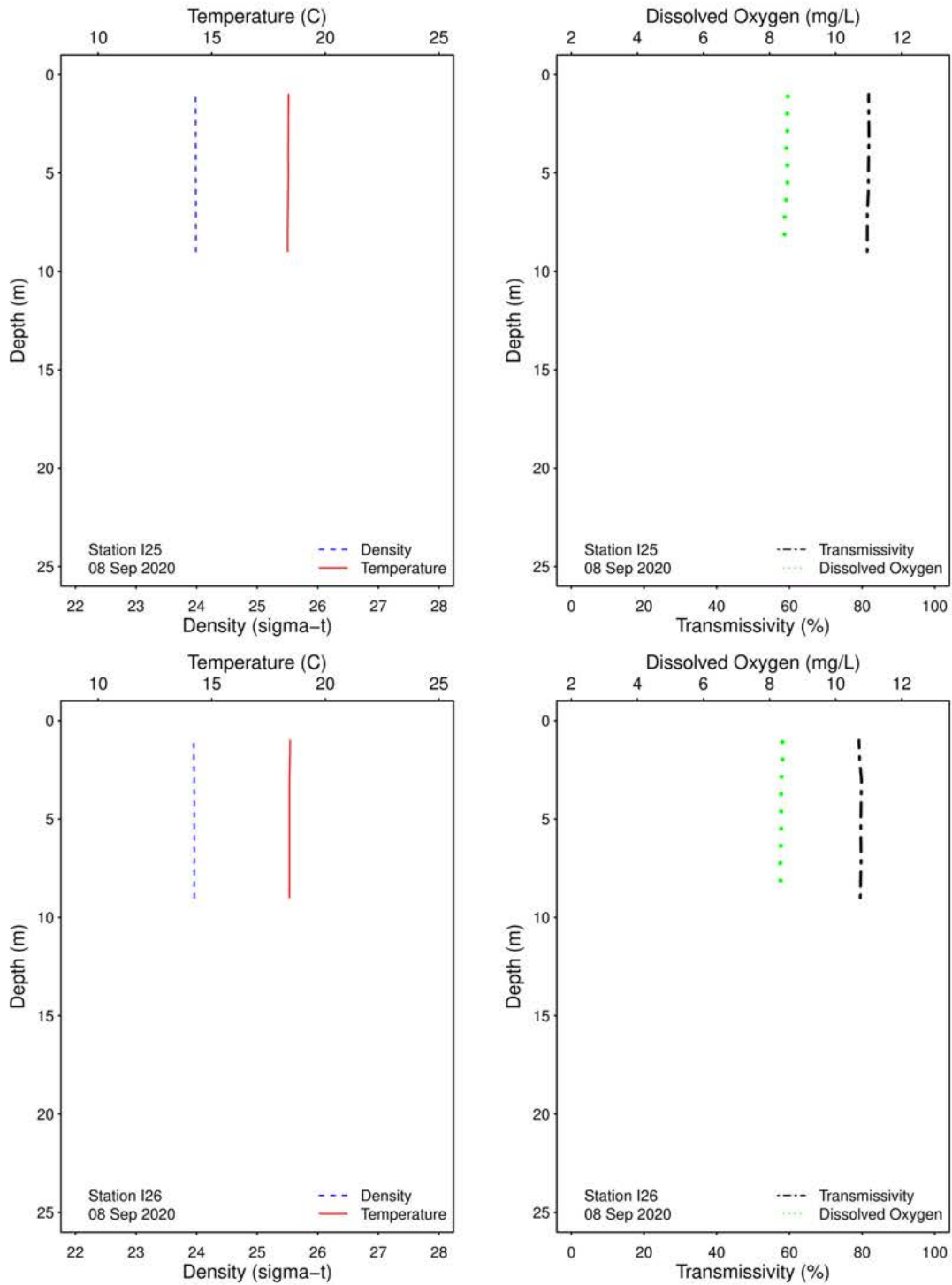


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

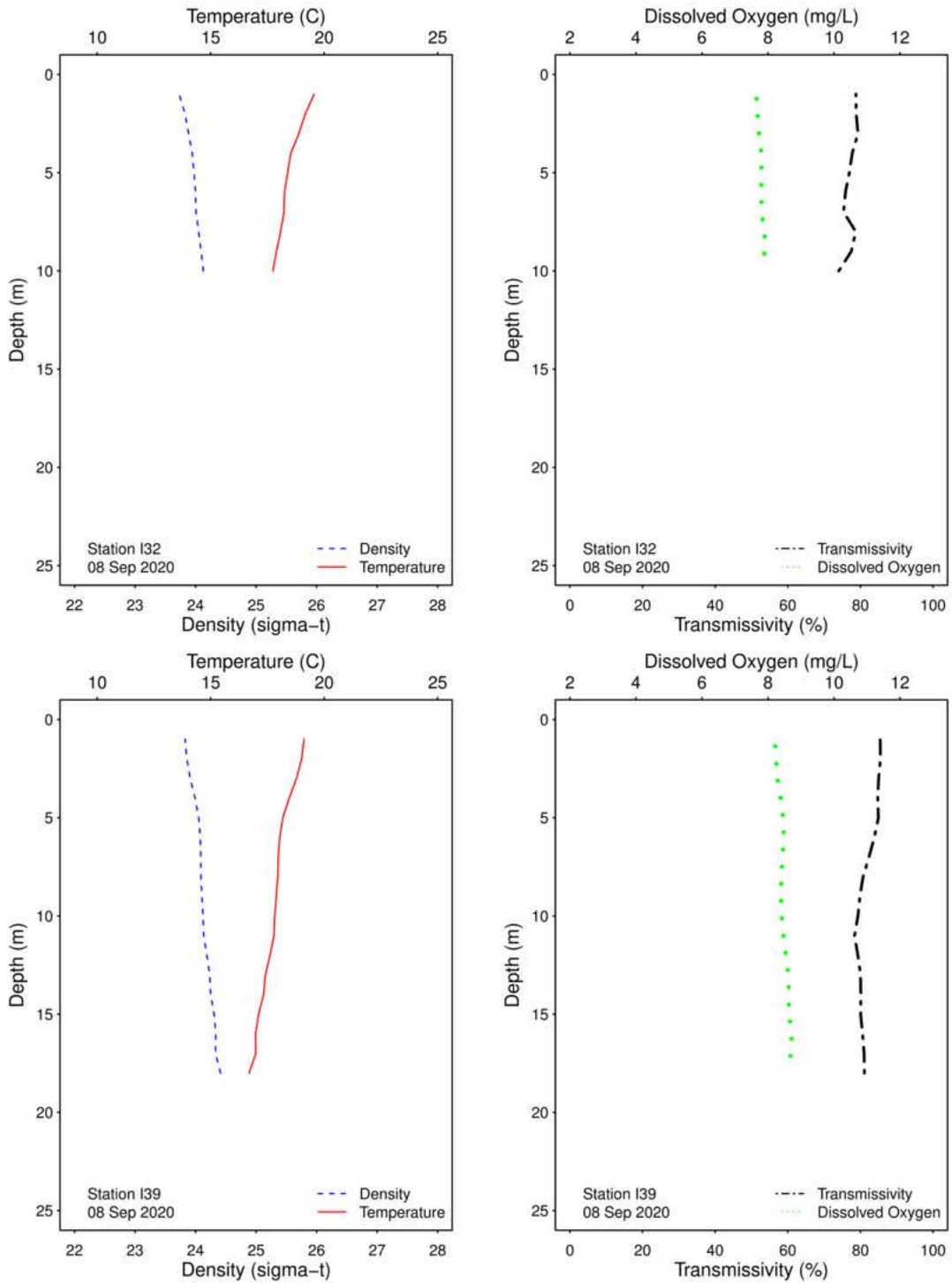


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

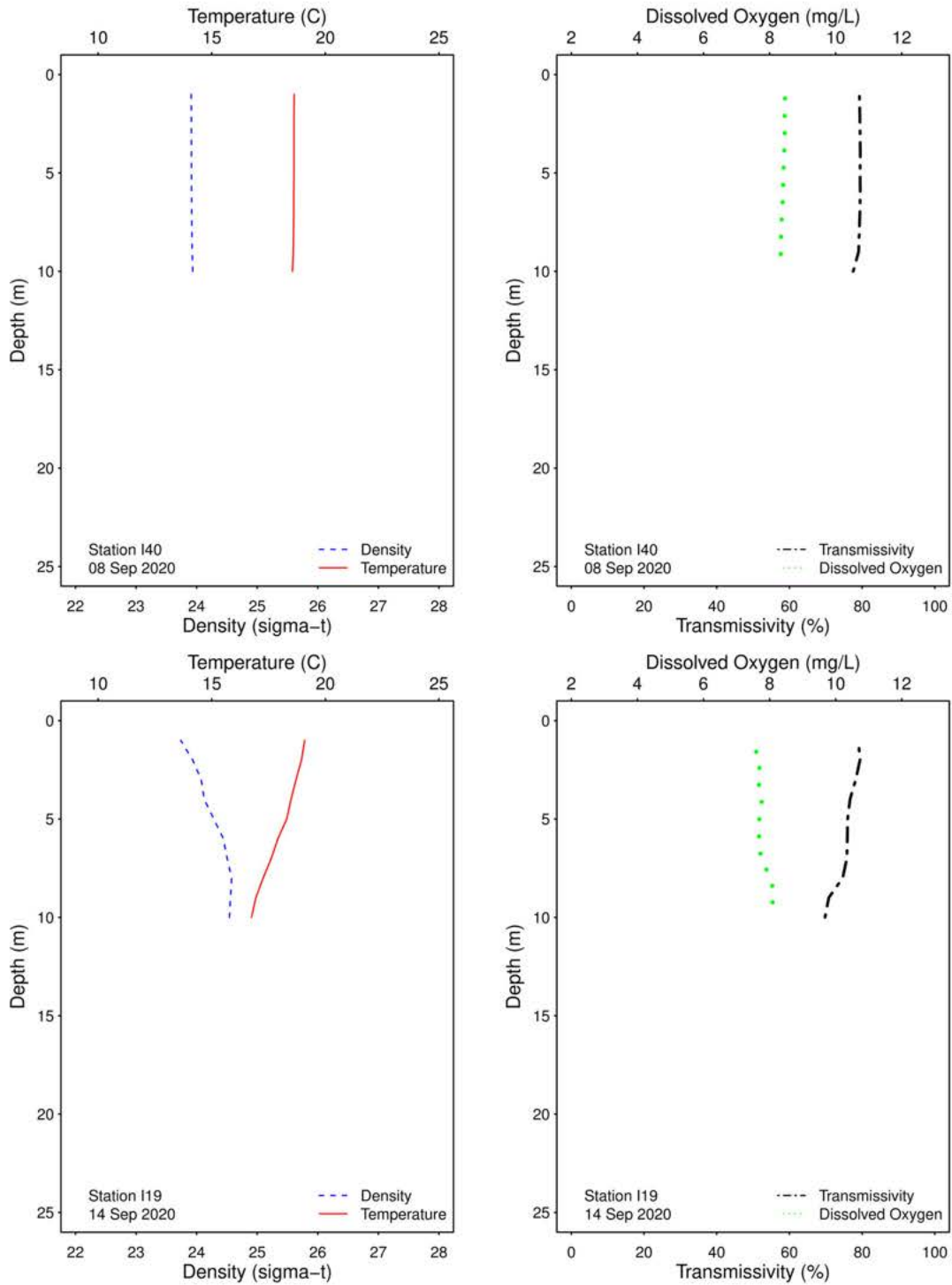


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

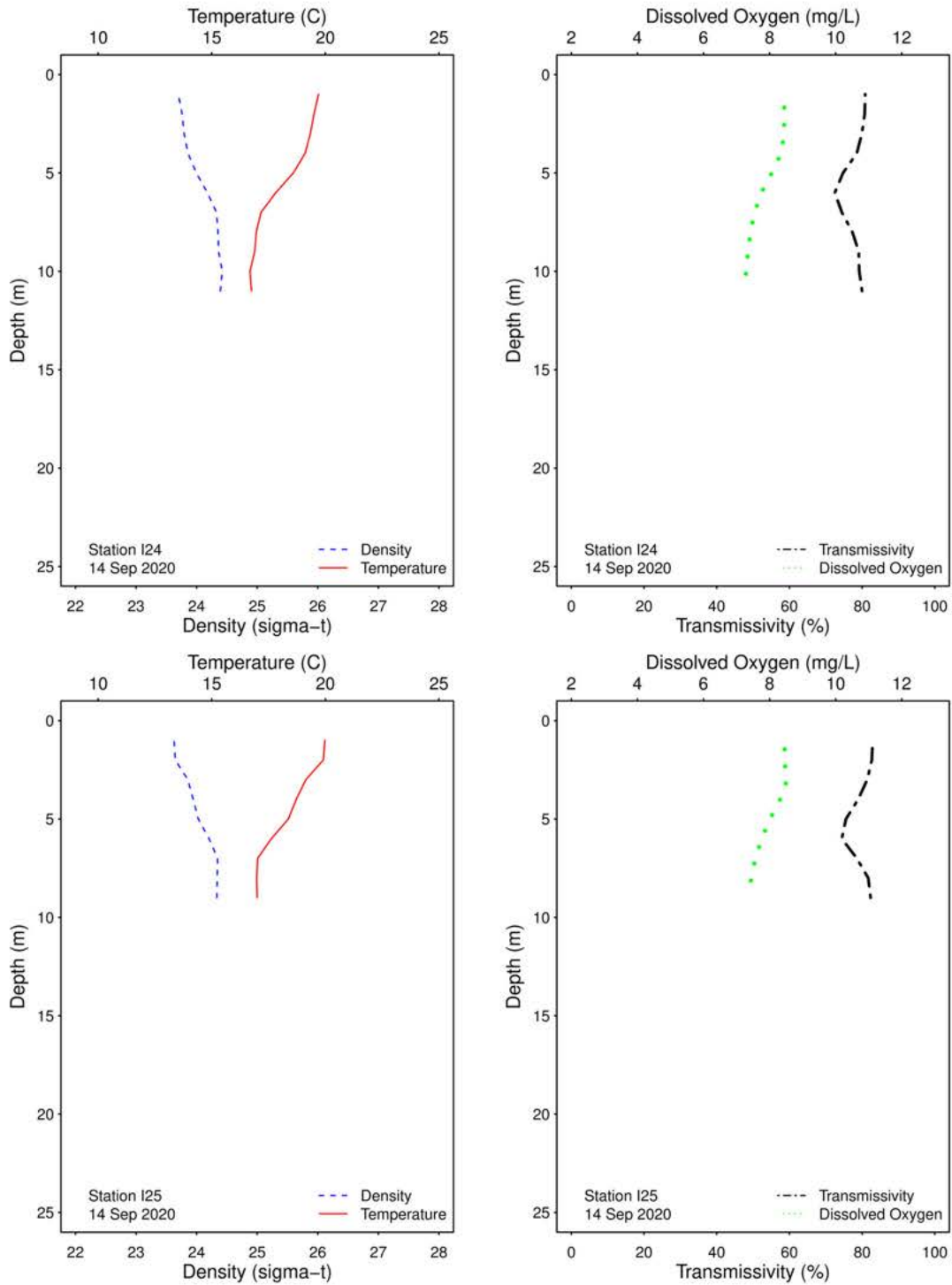


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

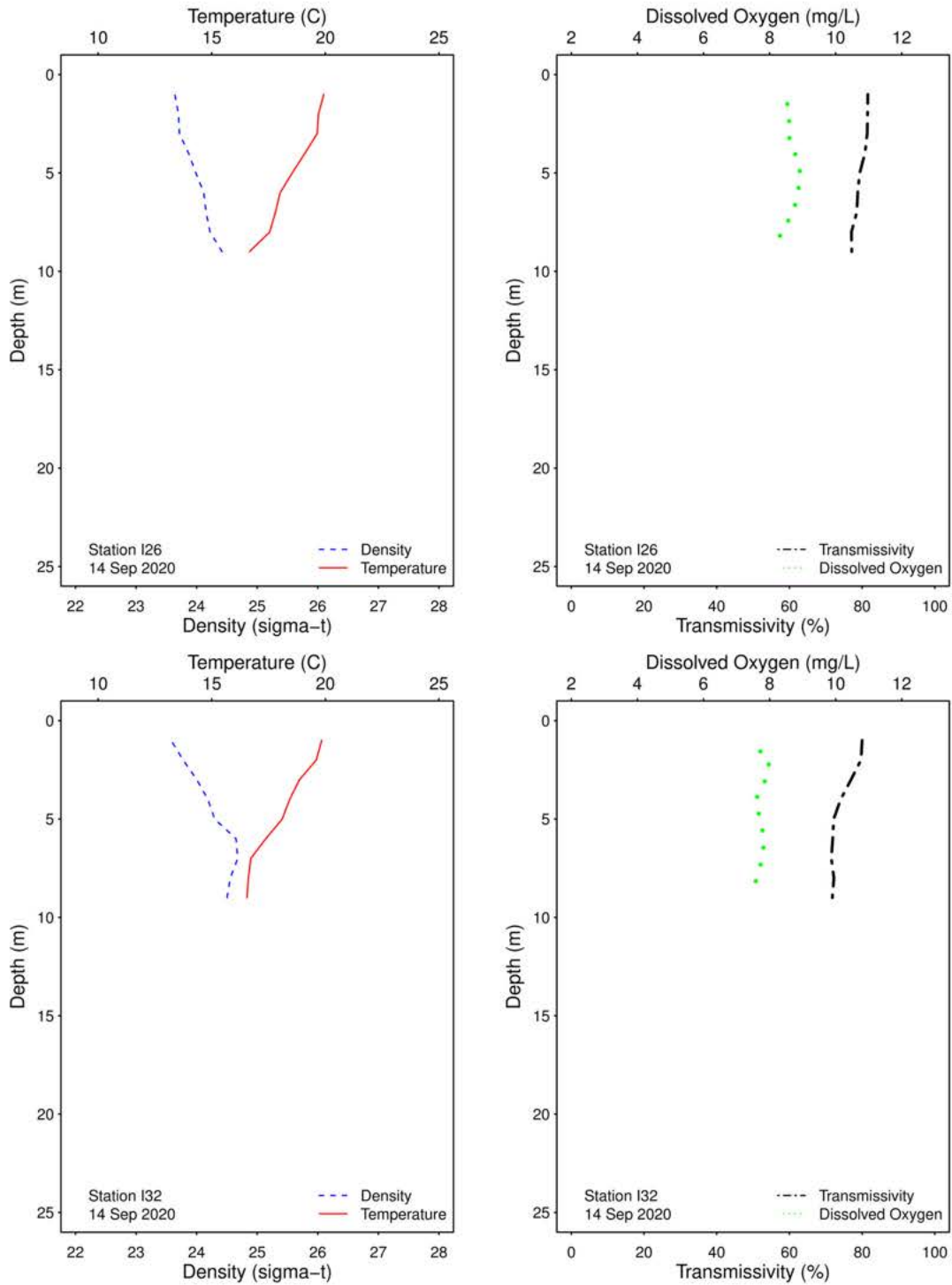


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

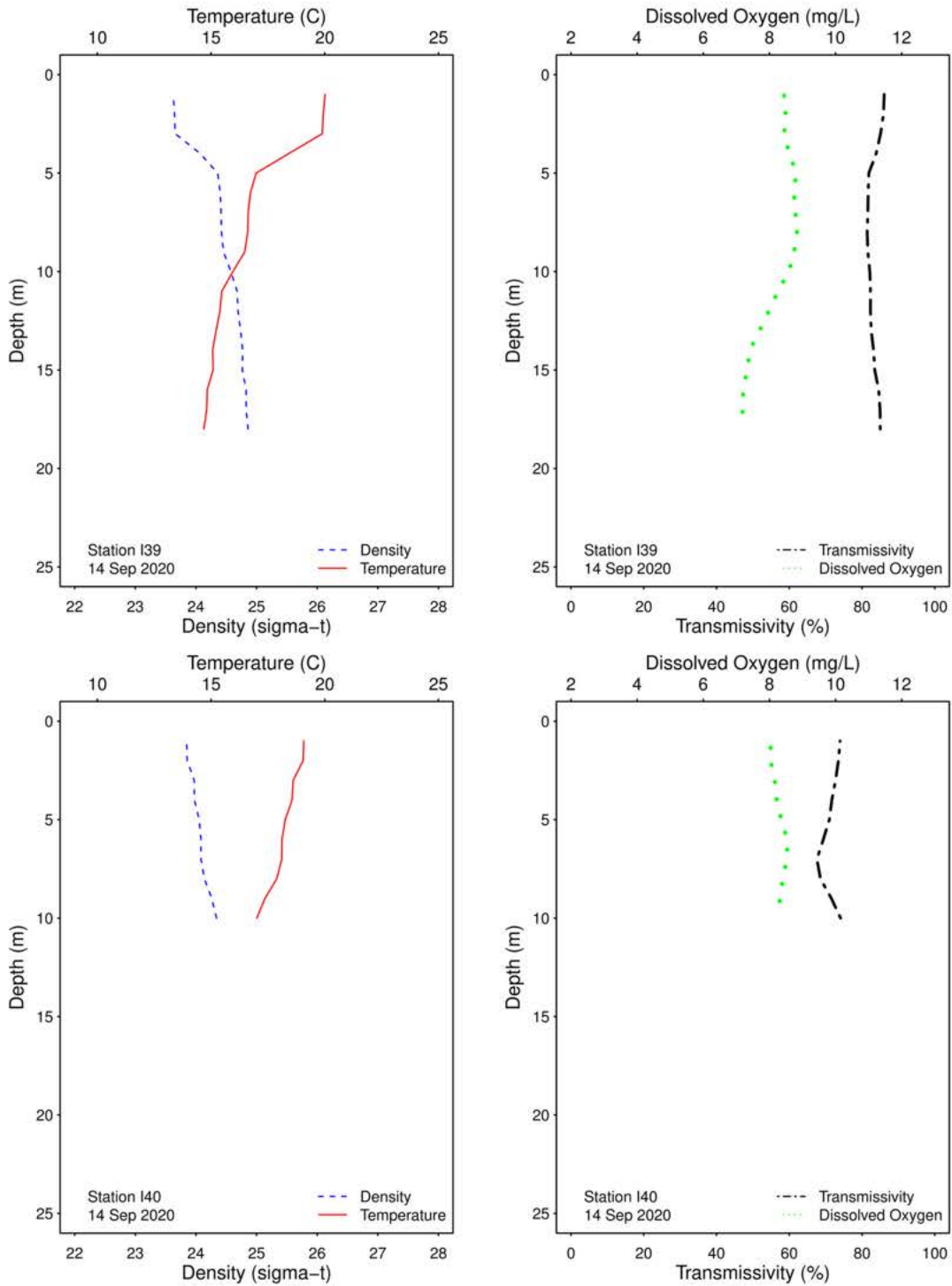


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

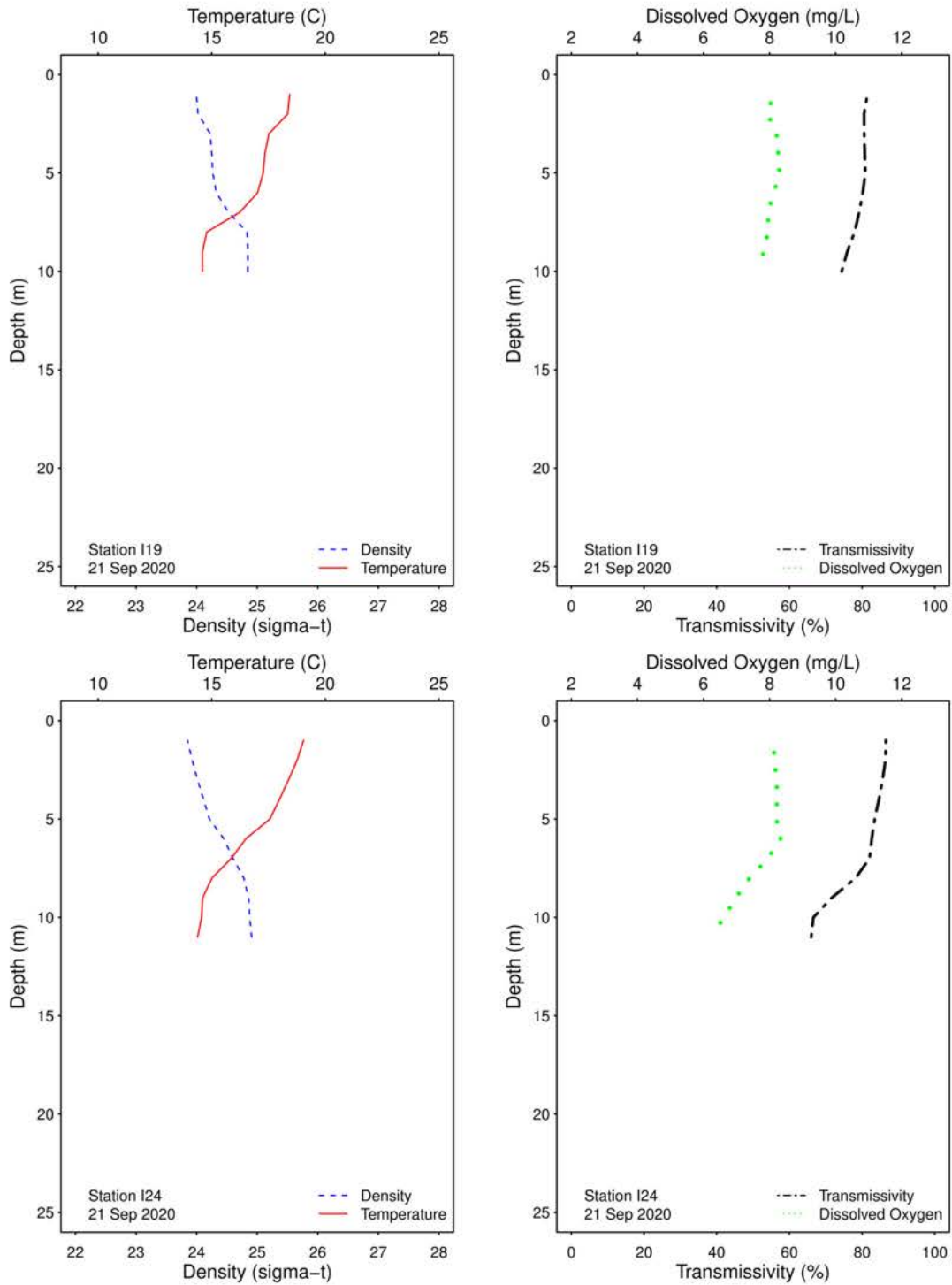


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

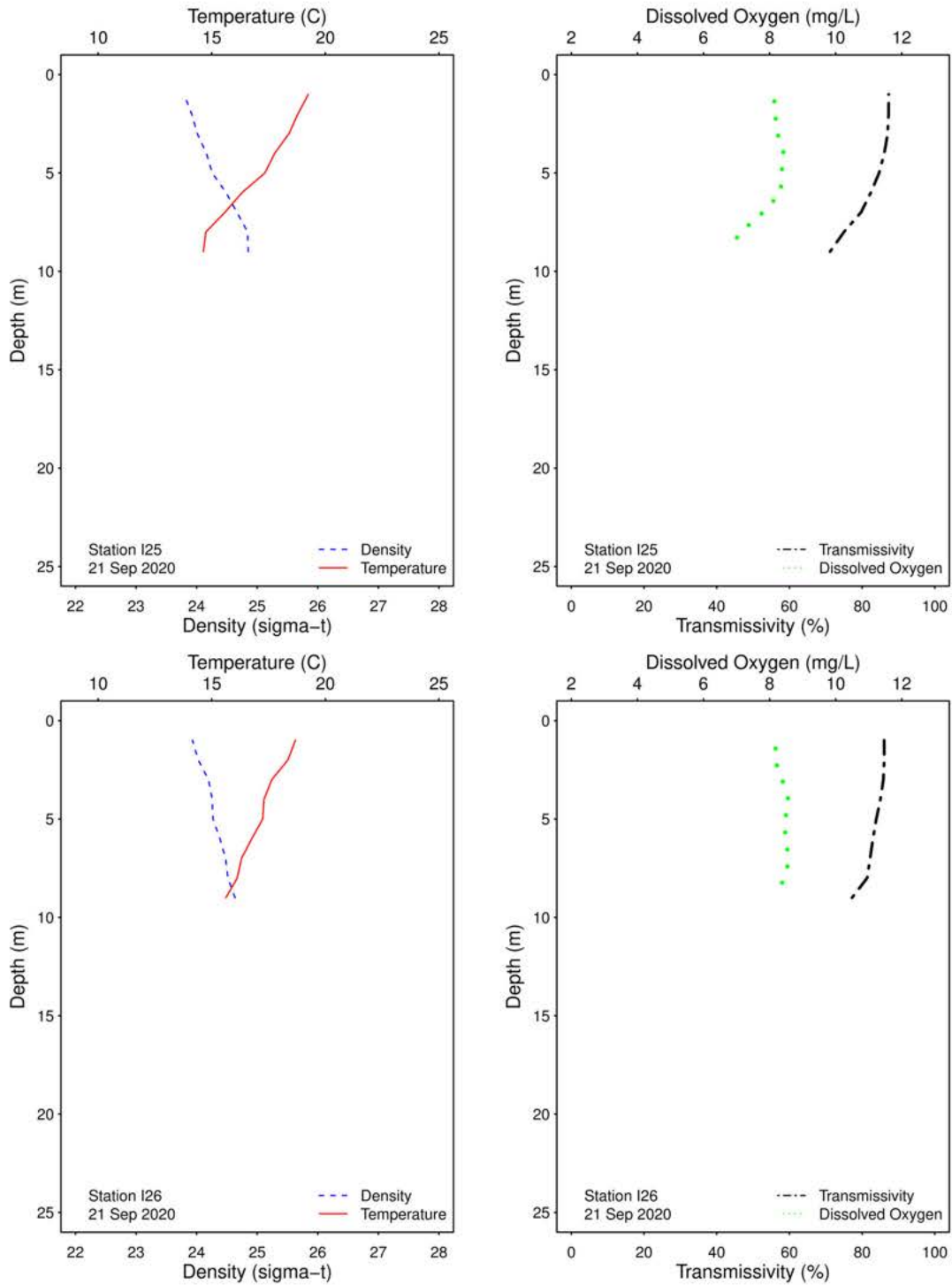


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

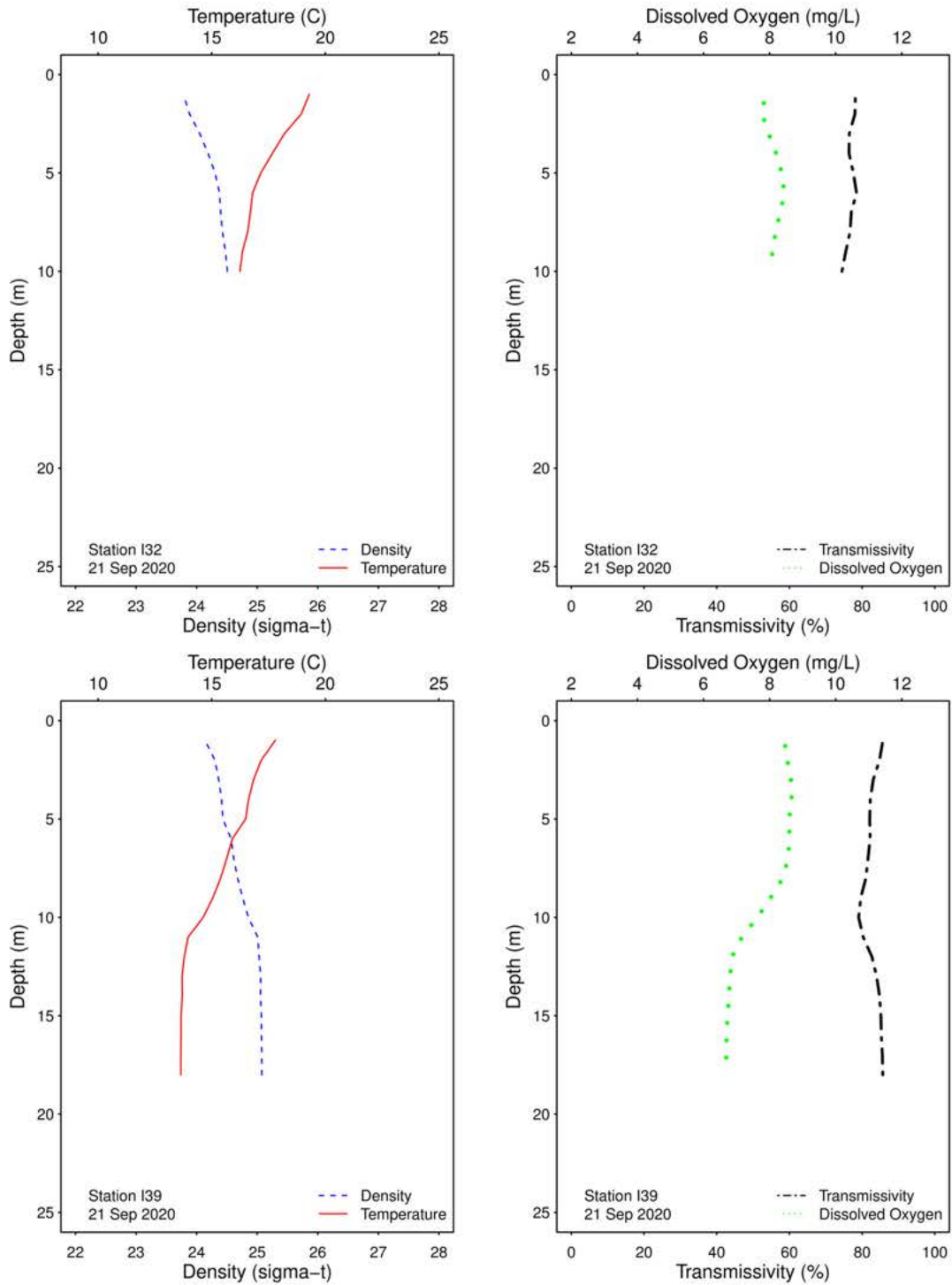


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

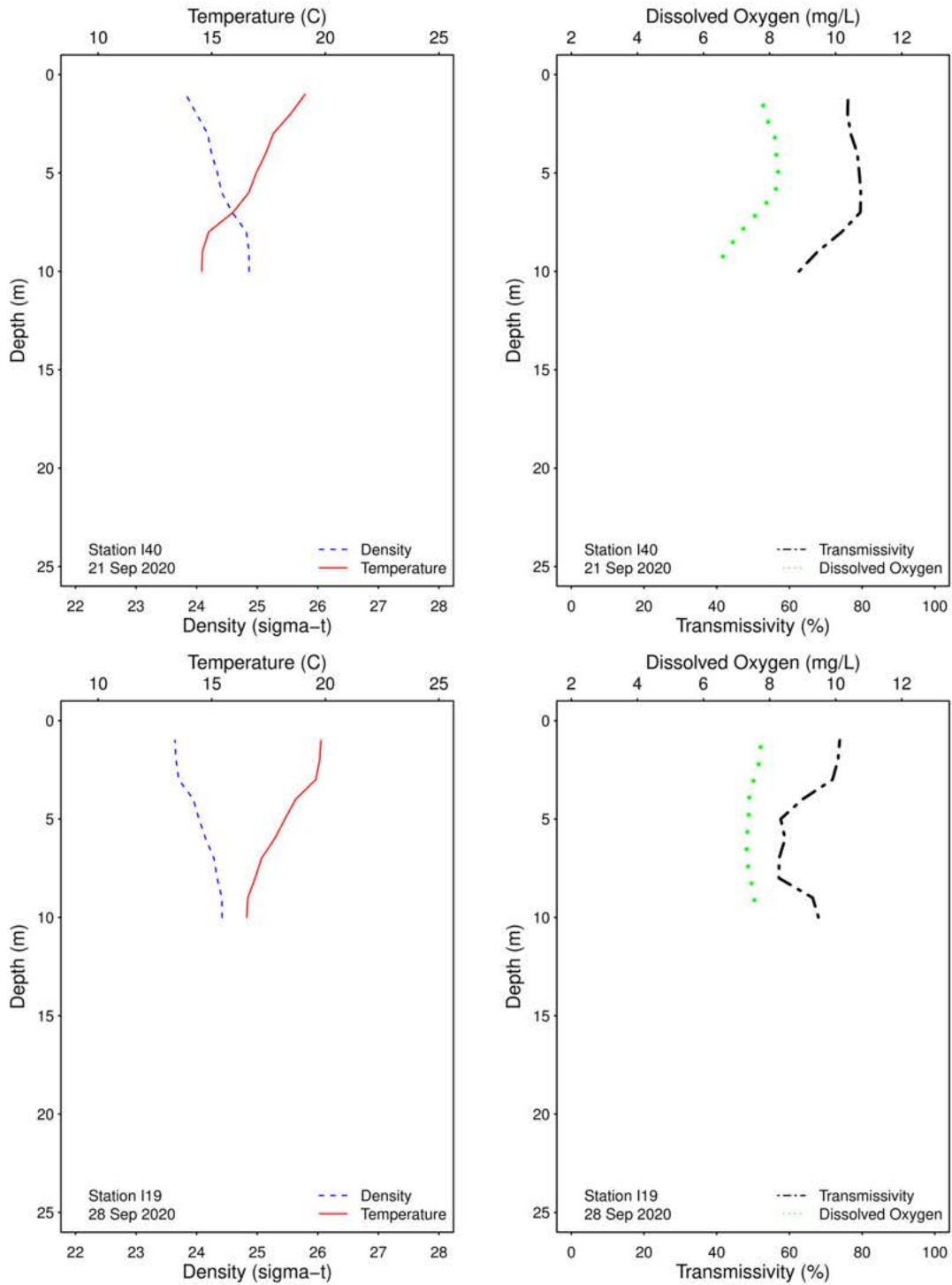


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

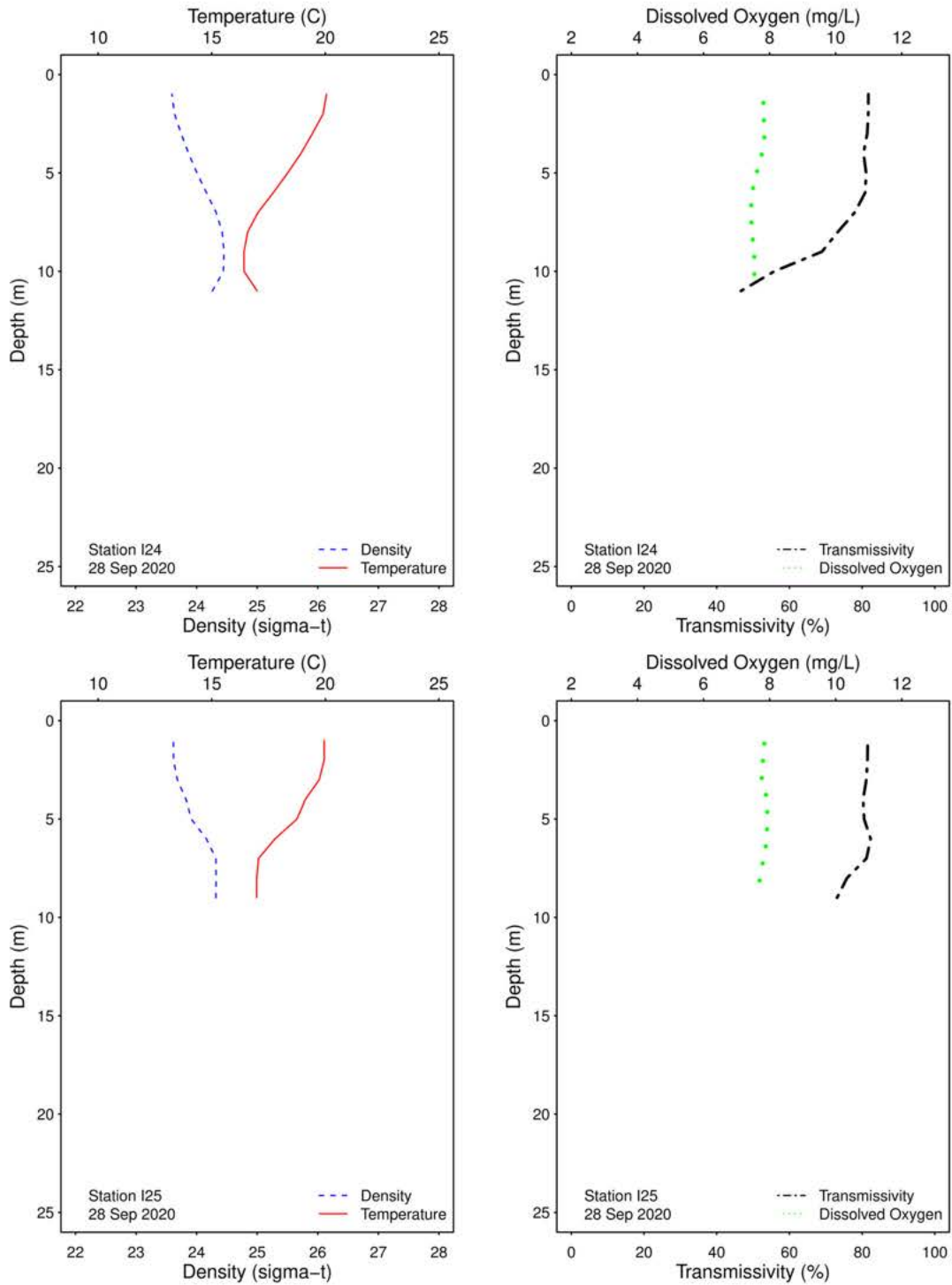


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

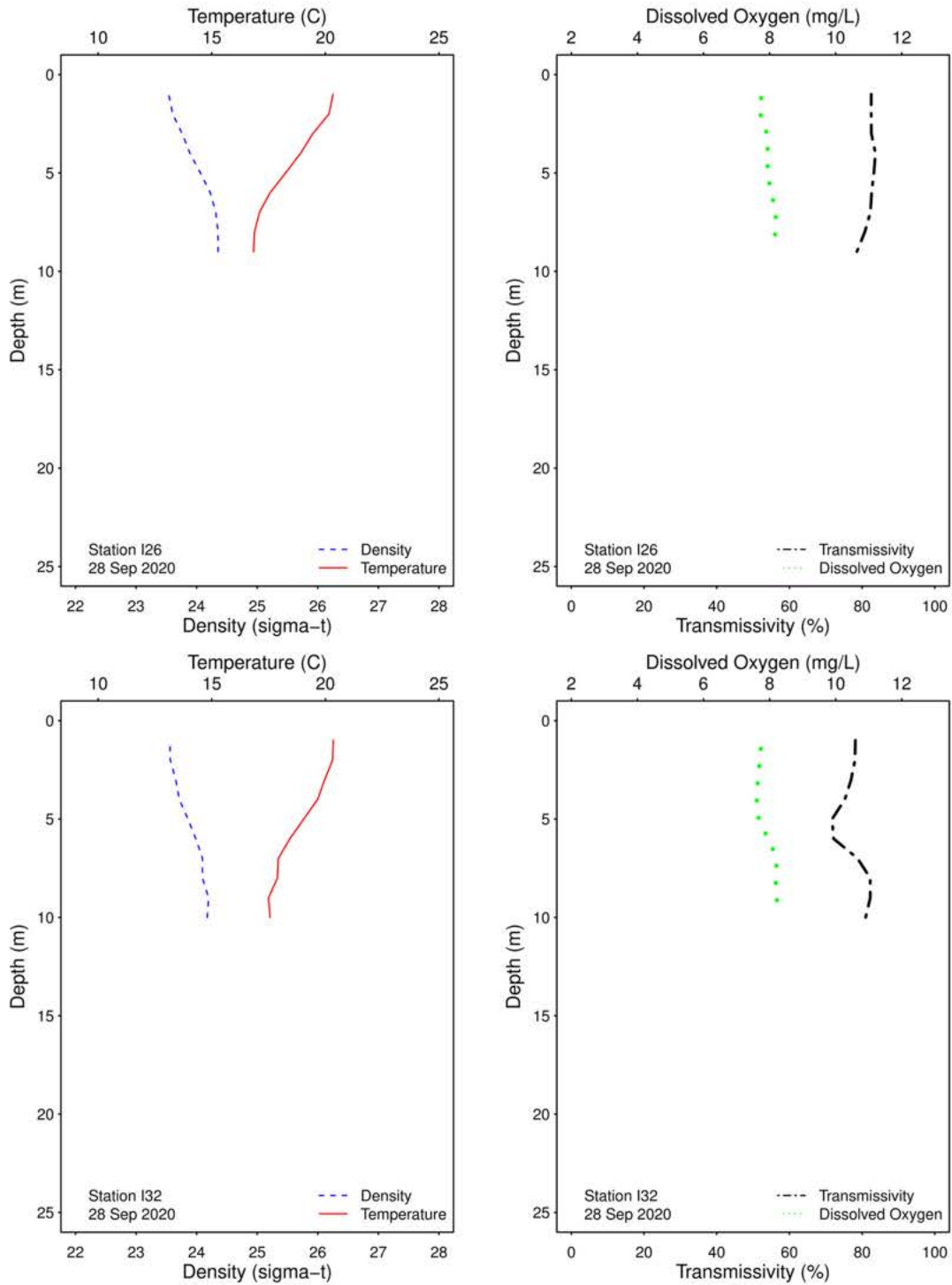


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

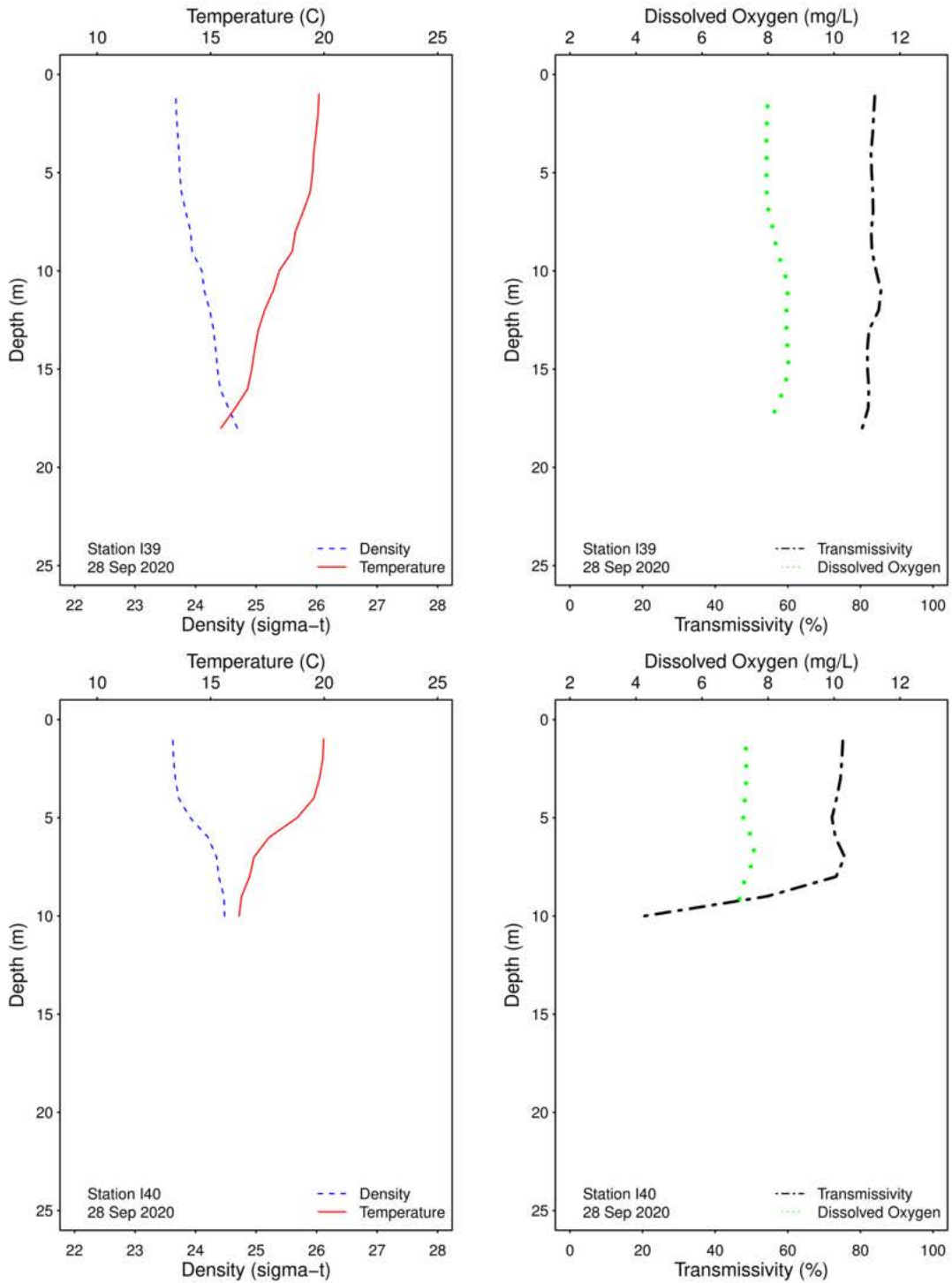


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

APPENDIX A
Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL.

| Station | Date | Depth | Analyst | Procedure | Total | Fecal | Enterococcus |
|---------|-------------|-------|---------|-----------------|-------|-------|--------------|
| I19 | 08 Sep 2020 | 6 | JF | LAB DUPLICATE | 12000 | 3600e | 1100 |
| I19 | 14 Sep 2020 | 6 | JF | LAB DUPLICATE | 2e | <2 | <2 |
| I19 | 21 Sep 2020 | 6 | AE | LAB DUPLICATE | <2 | <2 | <2 |
| I19 | 28 Sep 2020 | 6 | BS | LAB DUPLICATE | <20 | <2 | <2 |
| I40 | 08 Sep 2020 | 6 | JF | LAB DUPLICATE | 8600 | 2400e | 700 |
| I40 | 14 Sep 2020 | 6 | JF | LAB DUPLICATE | <20 | <2 | <2 |
| I40 | 21 Sep 2020 | 6 | AE | LAB DUPLICATE | <2 | <2 | <2 |
| I40 | 28 Sep 2020 | 6 | JF | LAB DUPLICATE | <2 | <2 | 2e |
| S12 | 01 Sep 2020 | | BS | FIELD DUPLICATE | 40e | 8e | 14e |
| S12 | 01 Sep 2020 | | BS | LAB DUPLICATE | 40e | 20e | 24e |
| S12 | 08 Sep 2020 | | JF | FIELD DUPLICATE | 1200 | <200 | 120e |
| S12 | 08 Sep 2020 | | JF | LAB DUPLICATE | 1800e | 400 | 320e |
| S12 | 15 Sep 2020 | | JF | FIELD DUPLICATE | 20e | 16e | <2 |
| S12 | 15 Sep 2020 | | JF | LAB DUPLICATE | <20 | 12e | <2 |
| S12 | 22 Sep 2020 | | AE | FIELD DUPLICATE | <20 | 20e | <2 |
| S12 | 22 Sep 2020 | | AE | LAB DUPLICATE | 40e | <20 | <2 |
| S12 | 29 Sep 2020 | | AE | FIELD DUPLICATE | <20 | 20e | 2e |
| S12 | 29 Sep 2020 | | AE | LAB DUPLICATE | <20 | <20 | ns |

ns = not sampled

ND = no data

This page intentionally left blank